SEQUENCE LISTING

<110> Macina, Roberto
      Recipon, Herve
      Chen, Sei-Yu
      Sun, Yongming
      Liu, Chenghua

<120> Compositions and Methods Relating to Lung Specific Genes and
Proteins

<130> DEX-0291

<150> 60/252,500
<151> 2000-11-22

<160> 284

<170> PatentIn version 3.1

<210> 1
<211> 338
<212> DNA
<213> Homo sapien

<400> 1
tggatacgag cggacagccc gggcaggtac cgcatactag caaaggtaat ggtgatctag   60

caaacaaaat tggtttctag cagttagaag tgagcaggag cacttgtatt atagtattta   120

aataatcctg gttaatctct ttttaagccg agtaacccct ccagattttg cctttttatt   180

attgaggctg gctttatttt cttctacttt ttttcccgtt ttatagcagt taattatttt   240

tgtgattatt atgcaagaag cattgccctt gagttaaact gttattgttt cataagcagc   300

tattaaaata actgagcatg ttttatgaac atacacta   338

<210> 2
<211> 2446
<212> DNA
<213> Homo sapien

<400> 2
aaggatcctt aattaaatta atccccccccc cccttttttt ttgtattctt gccagtacag   60

tatatggttt ttctaccccca attacatact gggttttgta ccacatcact aaaggcccaa   120

atcattgaag atacaaaacc gtacatgcag gctggttgtc tggttagtca atggctgatt   180

tgcttcaact gtctagtatg tatgtgcagc ctgaaactgg ctccttaaaa ggaaagccgg   240

gtcagtcatc ttgaaaaaat gacatgtaaa agtaaatcga taattgtttt gagagacggt   300

acatgtttta aaggttggcc ttaagcttca gtaacattgt cattttgtga ccttttgttg   360

tcacacctgt accctaacct gacaggaatt aactactgtt tttttgtggg gcagaaagca   420

```
aaacctggtg ttgtgacttt tatcctaatg gttcttaggc aaggttagtg agaagaaaca    480

caaacccaga tgcatgcatt gtgcattatt ttgtagacaa gctacttttt cttctgtccc    540

tttaacaaat ttgcagcaat taccctccct ttggggtcta gagtgaaagc taatttgtgg    600

gtagatgaga ttgcagaaga atggatgtcc atggctgtga acactgcaca ctgcacatcc    660

atctccagtg ctcacactgt gcagctacca ctccctggct gcgtgccatg ctgtcgggtt    720

gcagatttgc acacataaat tcctcaggaa gagtttgcat gagcatcacc tcgcaatatt    780

ctgtactgac caaacaaggg atttgaacgt ttttcagcac aaaaggataa cttccgagtg    840

gtggtctgta cgcatactag caaaggtaat ggtgatctag caaacaaaat tggtttctgc    900

agttagaagt gagcaggagc acttgtatta tagtatttaa ataatcctgg ttaatctctt    960

tttaagccga gtaacccctc cagattttgc ctttttatta ttgaggctgg ctttattttc    1020

ttctactttt tttcccgttt tatagcagtt aattattttt gtgattatta tgcaagaagc    1080

attgcccttg agttaaactg ttattgtttc ataagcagct attaaaataa ctgagcattg    1140

ttttatgaac atacactaat ctgagatact gaaaagcttt gcaactaaaa agcaaaacaa    1200

cctacattag tcatctagcc attgtttgga tgttttgagt tgatttttta tggtgcctct    1260

tttagcttgg aatattacgt ttacttaat ccaagtctag gccttttaaa gggtccttaa    1320

aattaaagtt cagaatgtga atccctttga catctattac aggtttatag gaccttttg    1380

gttgtgatta ctgttttcaa tacgattgta taaatgaagt taactttgtc agaagttaaa    1440

atggaggtca taggagttcc tggagaaatg gctctcctgt ttctttcatt accccactga    1500

agttcacccc agtttctggc cacaagaata tgagaaagga accctgttgt tttccaaggg    1560

aaatcattcc tctctgtccc cactgttgat taactaaagt cctggacacc ttccttcctc    1620

cactggccaa gacccacctt gacccacctt gaacctcttt tcagagccga gtggcatgaa    1680

tatgtgtact gtttctgctt ctgttgatgg agtggctgtg ggagaattaa aggaaatgct    1740

aatttgagct tcattcatag gggaacctac tatatattgc atccctgctg gttggaaatt    1800

atcttcatct ctggactgca ttgtttagaa aaatgttaat ggcttacaat tctgagaact    1860

ttattgtgtg gctctggggt taagaattct gtggtttgaa aaaaaataaa tattttgtat    1920

tgattctcac gtcatttcaa tgttgtgact atgtactaaa tgcactaaga ctgggtattc    1980

tcttagaaga gtgcgttttg ttaaacagat ggcagttcac tctcattagt tctatttgtc    2040

aatattacag ccacacactt caggataact tactcaaatg tgaagtcatg ggaagctatg    2100

gctagtaaca ggaatgcttg tgaaaaattt ggagggcaag cacgagcaga ggcttttgcc    2160

actcactagc acagccagag caaggatgaa gcatgaagtc ttgttcctag tggtgcttgt    2220
```

```
atgtcagaag ccatagtgag ctcagcccgg gcgttctgca catcatctct ttaatcccag      2280

aaaaacaaat ggcggatgaa actcctattg acctgggata caagccctga ctttggctct      2340

tgatcttttg gtgggttctg aatcactcct tctgtattag ggcatatact ttcactctaa      2400

aacttgtggt aaatgaaata aatcttgtac agatgtaaaa aaaaaa                      2446


<210>   3
<211>   460
<212>   DNA
<213>   Homo sapien

<400>   3
acacacccaa atgtattcca agaccatact ctgtgacagc tgaaagatca aattttttgc        60

ttgctatcca gagatgagcc ttctgctcca ctgggaactt ggctctacca gctcacagac       120

ccctttggga agctgcagaa ataaaacact cccctctatg cctcactaca caagattaat       180

acacttctag tgaaagaaga attttaatgc acttgagatg aaagaagcca gatgctttcc       240

tatttatgtc ctttccaacc atttagagtg cgggggatgg aagtgtagca aggcttgacc       300

tgcaactccc aggaccctgc tggtcatgtc aatcccaagg gcagaaatat ctcttctaga       360

atccttccag ctcacctcca ctgtggctac aagtgaaagc cataagtcaa acgggagctg       420

caggaagcca cacttactgc actgtccaag aataaatcaa                             460


<210>   4
<211>   594
<212>   DNA
<213>   Homo sapien

<400>   4
acacacccaa atgtattcca agaccatact ctgtgacagc tgaaagatca aattttttgc        60

ttgctatcca gagatgagcc ttctgctcca ctgggaactt ggctctacca gctcacagac       120

ccctttggga agctgcagaa ataaaacact cccctctatg cctcactaca caagattaat       180

acacttctag tgaaagaaga attttaatgc acttgagatg aaagaagcca gatgctttcc       240

tatttatgtc ctttccaacc atttagagtg cgggggatgg aagtgtagca aggcttgacc       300

tgcaactccc aggaccctgc tggtcatgtc aatcccaagg gcagaaatat ctcttctaga       360

atccttccag ctcacctcca ctgtggctac aagtgaaagc cataagtcaa acgggagctg       420

caggaagcca cacttactgc actgtccaag aataaatcaa aagcttttaa tagcaagaag       480

ttaaaaataa agcagcacgt ccttaaaaat aaaatttcct acaactgaca aaataaagga       540

cgaacacgca ctggttgttt cttaaccact agtggacaag caaagggaaa aagc            594
```

<210> 5
<211> 283
<212> DNA
<213> Homo sapien

<400> 5
actactaaag gcaaccggca tggactcata atatttgtgg ggacagcaaa aagactaaaa   60

gttctaagga agaaaatgcg aaccttgata gtttgaaata gttaaaaaga cagtgtagaa   120

actgcttagg cagttggatt atggactatt agatgatact tgggtctgat aatggtataa   180

ggagaataaa gtatttaggg atccaatatt acgcctgcag cttttttccaa atagttcatg   240

ggggaggggg atgtgtaagt ggttaactga agtctaacta gat   283

<210> 6
<211> 2237
<212> DNA
<213> Homo sapien

<400> 6
tttttttttt caagaaaaaa aaatcacttt aattgaggaa cactttcagt ttgtgacaaa   60

attatgctgt gaatcaggtg ttgcaaatta tggcccactg cctgcttttg tgtaagtttt   120

attggaacac agctacattc agtccatggc tgcttttaga atacaacagt agactttaac   180

atttggaaca gggaacagaa accagagcca tacagctaat aaacttgaaa atatttacaa   240

gttgatgctt tacaaaatcc atctgctgac ccctgctctg taccattgtt ctcttctgat   300

ggtctgttta ctaaaaaata aaaacttcac aaacatgtaa aaaatagatt tgccatttaa   360

aatgtgcttt tcaagtttga cttttttagga tgcaattaat tcactaaata cagaacttaa   420

ctaaggacaa aatttaaaga tcagcattct ttcccttccc atcacgctca acttaacatg   480

aagaactgta aacatcctaa gcttacaaca aacctatcta gttagacttc agttaaccac   540

ttacacatcc ccctccccca tgaactattt ggaaaaagct gcaggcgtaa tattggatcc   600

ctaaatactt tattctcctt ataccattat cagacccaag tatcatctaa tagtccataa   660

tcaaactgcc taagcagttt ctacactgtc tttttaacta tttcaaacta tcaaggttcg   720

cattttcttc cttagaactt ttagtctttt tcttccccaa aatatttgag tccatgccag   780

ttgccttttag ttgtacccaa ataatggttt gtctatttcc taaaagtagt actcttaaat   840

ttaaatttag tgttattttt gttgtcattg ttccttcttc ctcatgtggt tgtgcaggca   900

gagcttgagc atccagattt caaaattaaa aaataaaaga taatctagtt taatatatag   960

tagttgaatc accttaagtc tagactgctg tatgagcacc cattatcttt cactatattc   1020

catcatcccc caacatatcc acagtagatg aagggcagtt tgctcaaaca ttgtttttgat   1080

```
cctgtcatgt ctgttcagaa atgcctgtct attcagaaac ccacgtctaa taacaaaatc    1140

ttggactggt tactatcaaa acccaacaac atacagactc ctcagctagg ccctagggat    1200

atttttctac cttgatttcc aaatgttcat tgaaagaatg cttaattcta atttggaaaa    1260

aagttttggg cttcccactt ctgctttaca cgttcatctt tcttgaaatc aaatccaatc    1320

caatctatat tctaagaacc tgctcaaatc ttggttcttc aaagctttcc ctggtatttt    1380

gcatttttgc tttgaatagt tccacgaagg ataacttctt actccttcct tcatctttct    1440

gtatcttgca tatagtaaat attaatgact tgtttgcatt ttgttatcct aacttggcta    1500

taaagaaaat cagatgtctt caccagtcgt tcaaacttca ggtctgccta cagattcata    1560

gatggctgtg gatttttata attttgtcac aaagttagtg gtaactacag gttatctcag    1620

aatatctttt ttggcgtata aatttttttc ttttcctttt ttagacagtc tctctctctg    1680

tcgcccaggc tagagtgcag tggcgtgatc ccggctcact acaacctctg cctcctgggt    1740

tcaagagatt cttagcctca gcctcccgag tagctaggt tacaggcgcg caccacctcc    1800

atgcccagct cttttgtatt tttaagtaga gacagggttt caccatgttg gtcaggctgg    1860

tctcgaactt ctgacttcag gcaaccttag ccgcctcggc ctcccaaagt gctgggatta    1920

caggcacaag ccactgcacc cagccttatt accataaatc atcttgatgc tggtacctga    1980

taagattcta tttgctttc tttattcata gagaccacaa acagatcgca gatccaggtt    2040

tctcaaactg gagcatctgc ttaattttcc cataaaatca gtcttattct ttctgacagc    2100

tctgagactc ctccggccac gactaggtgc tgtcctggag gaaacggtgg aggacggccg    2160

cacaaaaacc aatctacctg atgaaaactc cgttcccttc tcgccagaaa cataaaatgc    2220

gatggatacg ctcgtgc                                                    2237
```

```
<400>   7
tggggtcgcg gcgaggtacc tttctgtttt aaaatgttca aataatgtat tttttaaaaa      60

tgtgtaatca ttcaaggaaa cgggaaaaca agtctaaata aaaccgggtc ctaaagttta     120

ctctaggagt cattattctt cctttgcagt ctcaattcta tttactccgt aacaagtaaa     180

ctgtttttatc ccttcggctg ggaaggataa ttttttaccct accaagatga tgacaatgcc     240

actgcagtgc tcacccagca agaaacacat aaatatgaag cagcgtcaaa gtctttctat     300

gaagtgtatg caagaattga tttgcaatgc attaattcag gaattcagtg gagaggctcc     360
```

```
tactatacct agcagatcta aacttgagct catgataaca ctgcacaaag ctatggtaga      420

taaaagtgat aggtaatgcc aatagaacaa ttccactgac aacacaaact cctccaagaa      480

ttcttccagg cactgtgata ggatacatat ctccatagcc aactgtagtc atagagataa      540

tcacccacca gcaggcagca ggaatgctgg taaagtcctt gttggatgtt ccaggtcca       600

gcccatgttc aagaagctga gaaagtgcac taaagattgc catggcaaca caaatgaaga      660

cagtaacata accatctctc ggtagcacgt ttgagagtca accgagtgct gaagaccatt      720

aagtgacggc agctggcgta atcatgtcta gctgttctgt gtgaatgttc gtcaacc        777
```

```
<210>   8
<211>   911
<212>   DNA
<213>   Homo sapien

<400>   8
ggttgacgaa cattcacaca gaacagctag acatgattac gccagctgcc gtcacttaat       60

ggtcttcagc actcggttga ctctcaaacg tgctaccgag agatggttat gttactgtct      120

tcatttgtgt tgccatggca atctttagtg cactttctca gcttcttgaa catgggctgg      180

acctggaaac atccaacaag gactttacca gcattcctgc tgcctgctgt gggtgattat      240

ctctatgact acagttggct atggagatat gtatcctatc acagtgcctg aagaattct       300

tggaggagtt tgtgttgtca gtggaattgt tctattggca ttacctatca cttttatcta      360

ccatagcttt gtgcagtgtt atcatgagct caagtttaga tctgctaggt atagtaggag      420

cctctccact gaattcctga attaatgcat tgcaaatcaa ttcttgcata cacttcatag      480

aaagactttg atgctgcttc atatttatgt gtttcttgct gggtgagcac tgcagtggca      540

ttgtcatcat cttggtaggg taaaaattat ccttcccagc cgaagggata aaacagttta      600

cttgttatgg agtaaataga attgagactg caaaggaaga ataatgactc ctagagtaaa      660

ctttaggacc cggtttttt tagacttgtt ttcccgtttc cttgaatgat tacacatttt       720

taaaaaatac attatttgaa catttttaaaa cagaaaggta ctattttcca atgtttttcc      780

atcttatgaa ttcagaagaa gcttggaact tatagtgttt tttgtttgag agtaacattt       840

tcatttctaa atgtttttata atttctcata tcaatgtcag aagtatcctg gaaacatatg      900

tcacatgcga g                                                           911
```

```
<210>   9
<211>   445
<212>   DNA
<213>   Homo sapien
```

```
<400>  9
gccgcccggg caggtacatg tgcacttaaa tgtaatagca ccaacattca ttatattatg      60

aaggggatac tttataagaa ttataaatta tttttacatg attaaataat tttggcagag     120

taagtccgca ggacttaaat aaccagtcag ccttagtatc tacatctgga ccaggaagcc     180

ttgtgttaca gacacagatt ccctgtgaag ttctccaggg tgtaaagaag gccccaggga     240

ggtgccgacg ggatgtgagg gctgcctttc agctcaggcg agcctgcaag caacagggca     300

gttgggaagg gtcacaggca caggaaggga gcagtgggca accattgatt acatcaaacc     360

aggatggttt cttcttttta aagaaacttt tgtgagtgtt tacccacccc catccacaca     420

aatatgctct ctaggaaatg tgaaa                                           445


<210>  10
<211>  1254
<212>  DNA
<213>  Homo sapien

<400>  10
gtccgcttaa ttaaagatct ttttttttttt ttttttttta ttgttaagca tatttgtata     60

ttttttacta gttatttcat acttgccctg aaagaataca cattcaaaaa gcttgaaatt     120

aggcaatgtc agtctcatca aacaaaacca gcattggaag cgaatattaa caaatatcag     180

aatgaaatta caaaatatac atctccagcc tcataaaaca tgaattttat aagcactttc     240

ataaacataa gaaaaatagc tttgacaata actatttgaa aacattatta ttaataatct     300

tgtatactgt acatgtgcac ttaaatgtaa tagcaccaac attcattata ttatgaaggg     360

gatactttat aagaattata aattattttt acatgattaa ataattttgg cagagtaagt     420

ccgcaggact aaataaccaa gtcagcctta gtatctacat ctggaccagg aagcctttgt     480

gttacagaca cagattccct gtgaagttct ccagggtgta agaaggccc caggaggtg      540

ccgacgggat gtgagggctg cctttcagct caggcgagcc tgcaagcaac agggcagttt     600

gggaagggtc acaggcacag gaagggagca gtgggcaacc attgattaca tcaaaccagg     660

atggtttctt ctttttaaag aaactttgt tgagtgttta cccacccca tccacacaaa       720

tatgctctct aggaaatgtg aaagtataag cttcagaaaa atgttttct catcctttaa      780

tttctggttt tatgatcaaa tgttccgaag acactgcttc tttttgctca aaatagttga     840

cattgtcatt gcttctagtt tttcagctcc tactatgctt actatgtcca tgggtgccat     900

tgacgtcttt ggctatttat catctctaga aaagaaaaaa aaaacattaa aattttagga     960

tgtaggattc acaataaatc tcttaccaaa tcctccttaa atccctaaac tctctacctg    1020
```

```
gctctgactc caggatcacc ctttcagttc tttccatgtt tttcttcgga aaatgtagtt   1080

tcctaacctt tctacccacc cttctcgtct actcttaggt ctgcagccac agtgatagtt   1140

ctaagttgca aacctgatca tgtccttcca gtacttagtc gttgaaaaat cttcctactt   1200

cccgcagatt gaagcctgaa ctctttaata ggcatctaag gacttggacc cgga         1254
```

```
<210>   11
<211>   838
<212>   DNA
<213>   Homo sapien

<400>   11
gcccgggcag gtacttaact aattgggctg aggatgaata tatcagccac agcacattaa    60

agaatgagcc aaggattgtc atggttggtc actttttaaa gtattgatta ctgcaactgg   120

agaatggaaa gtgtatattg gtgacgccaa cctcagtttc tgagcactcc tgctctgtgg   180

tgagaatcag acaaaaattc atcggggtga aaaggcatt acctgattca caccettgtc     240

ttgctagccc tcttccattc atttctcaca cagcacttgc tctgttaaat cctctctctg   300

tctcagacca tgcttgcccc ttcaaagggt atggttcagg ctcctttcaa gacattggag   360

tttctctctg gggaaagaga gccccctact ggtttggctt cagtctaggt ccaccatccc   420

tctcgatctg gcatcttgga gattaattta aaaggcaagc tcaccacaat gtaagcctat   480

ggtctggcca accttgcttt gggaactgtg acaccaaagc ccccaggact atctgcctct   540

ccaggagcca gatagaatga catgcctttt tcctaattgt ccacattcca cccccaagcc   600

actgccactg tgggccaagc catccatctt gcaatcttca tctaaaacag ctctcatttc   660

atgccagttt tgtcaaacct gcaccgtcac aagatattca gaagatgaaa acgttagaag   720

acacccctga attaaaagca cttactagca gggggtggat tatccaaaag tgccgtgatc   780

ggttgtacct gggtttctca ccaatggaat cagctcctgg tgaacaagca tgtgggtg     838
```

```
<210>   12
<211>   1033
<212>   DNA
<213>   Homo sapien

<400>   12
atttaaggct gtacttaact aatttgggct gaggatgaat atatcagcca cagcacatta    60

aagaatgagc caaggatttg tcatggttgg tcacttttta agtatttga ttactgcaac    120

tggagaatga aaagtgtata ttggtgacgc caacctcagt ttctgagcac tcctgctctg   180

tggtgagaat cagacaaaaa ttcatcgggg tgaaaaaaaa aaggcattac ctgattcaca   240

cccttgtctt gctagccctc ttccattcat ttctcacaca gcactttgct ctgttaaatc   300
```

```
ctctctctgt ctcagaccat tgcttgcccc ttcaaagggt atggttcagg ctcctttcaa        360

gacatttgga gtttctctct ggggaaagag agcccctac tggtttggct tcagtctagg         420

tccaccatcc ctctcgatct ggcatcttgg agattaattt aaaaggcaag ctcaccacaa        480

tgtaagccta tggtctggcc aaccttgctt ttgggaactg tgacaccaaa gcccccagga        540

ctatctgcct ctccaggagc cagatagaat gacatgcctt tttcctaatt gtccacattc        600

cacccccaac ccactgccac tgtgggccaa gccatccatc ttgcaatctt catctaaaac        660

agctctcatt tcatgccagt tttgctcaaa cctgcaccgt cacaagatat tcagaagatg        720

aaaacgtaga agacacccct gaattaaaaa cacttacata gcagtggctg gaattactcc        780

aaaacgtgcc cagtgatcgc actgtaacat gggattttct cacccaaata ggcaactcat        840

gcttcctgag tgtaatcaaa gcatgtggtg tttggggcc atatgcacca ggtttctatt         900

ttagaaacct tcagctgtct tgcttatgta ccgtatgtaa atttattctt tttaaaaatc        960

acttttattt gattttgact tattaaatgc tttaaaagcc aaaaaaaaaa aaaaaaaaa        1020

aaaaattggt cgg                                                         1033


<210>  13
<211>  824
<212>  DNA
<213>  Homo sapien

<400>  13
acatatgaaa gtgacctcca aggggattgg tgaatagtca taaggatctt caggctgaac         60

agactatgtc tggggaaaga acggattatg ccccattaaa taacaagttg tgttcaagag        120

tcagagcagt gagctcagag gcccttctca ctgagacagc aacatttaaa ccaaaccaga        180

ggaagtattt gtggaactca ctgcctcagt ttgggtaaag gatgagcaga caagtcaact        240

aaagaaaaaa gaaaagcaag gaggagggtt gagcaatcta gagcatggag ttgttaagtg        300

ctctctggat ttgagttgaa gagcatccat ttgagttgaa ggccgcaggg cacaatgagc        360

tctcccttct accaccagaa agtccctggt caggtctcag gtagtgcggt gtggctcagc        420

tgggtttta attagcgcat tctctatcca acatttaatt gtttgaaagc ctccatatag        480

ttagattgtg ctttgtaatt ttgttgttgt tgctctatct tattgtatat gcattgagta        540

ttaacctgaa tgttttgtta cttaaatatt aaaaaacact gttatcctac aaagaaaaaa        600

aaacaaaaca aaaaaaaaca agggtggggg taatccgtcg ggcataagct gtccctgtg        660

tgactggggt tctccgtccc catccccatc tccgtgacac acaaaaaagg ccagacggcg        720

cacatgcact caccgaccag tacaaccaca caaggaaacg acgtaggcac accaacaacc        780
```

```
gacagcagaa agcaatacag aaaacaacaa caaccacacc tcac                     824


<210>   14
<211>   1093
<212>   DNA
<213>   Homo sapien

<400>   14
acctagagtg gttggaccat cagatgtttg ggcaaaactg aaagctcttt gcaaccacac      60

accttccctg agcttacatc actgcccttt tgagcagaaa gtctaaattc cttccaagac     120

agtagaattc catcccagta ccaaagccag ataggccccc taggaaactg aggtaagagc     180

agtctctaaa aactacccac agcagcattg gtgcagggga acttggccat taggttatta     240

tttgagagga aagtcctcac atcaatagta catatgaaag tgacctccaa ggggattggt     300

gaatactcat aaggatcttc aggctgaaca gactatgtct ggggaaagaa cggattatgc     360

cccattaaat aacaagttgt gttcaagagt cagagcagtg agctcagagg cccttctcac     420

tgagacagca acatttaaac caaaccagag gaagtatttg tggaactcac tgcctcagtt     480

tgggtaaagg atgagcagac aagtcaacta aagaaaaaag aaaagcaagg aggagggttg     540

agcaatctag agcatggagt ttgttaagtg ctctctggat ttgagttgaa gagcatccat     600

ttgagttgaa ggccacaggg cacaatgagc tctcccttct accaccagaa agtccctggt     660

caggtctcag gtagtgcggt gtggctcagc tgggttttta attagcgcat tctctatcca     720

acatttaatt gtttgaaagc ctccatatag ttagattgtg ctttgtaatt ttgttgttgt     780

tgctctatct tattgtatat gcattgagta ttaacctgaa tgttttgtta cttaaatatt     840

aaaaacactg ttatcctaca aaaaaaaaa aaaaaaaaa aaaaaaacaa gggtgggggt       900

aatccgtcgg gcataagctg tcccctgtgt gactggggtt ctccgtcccc atccccatct     960

ccgtgacaca caaaaaaggc cagacggcgc acatgcactc accgaccagt acaaccacac    1020

aaggaaacga cgtaggcaca ccaacaaccg acagcagaaa gcaatacaga aaacaacaac    1080

aaccacacct cac                                                       1093


<210>   15
<211>   428
<212>   DNA
<213>   Homo sapien

<400>   15
atgtagcgat ggcatggtca ctaatctgct cacggcgcag tgtggatgga tggtcgcggc      60

gaggtgtttt tgctgtctta atttactaaa ttgcctaatt tttagttgat ttctctacag     120
```

```
agcttacctt gtgtagctat ttctctttta ctgttgcttt ggtgtgttct tgaagtttga    180

ttgattattt ttggtcattg agttcttagt gtagtttgct agatgcatta ttaagattct    240

tttgtgtctg acacttgtgg tgagttgctt ttgaaatctg ttgagatttc catgtgaaga    300

actgataatc aggctcttga tctgcttccc taaattactt ttttagagcc caaaccccag    360

gtttagggtg agggtttgta atacaaagaa acacttccat cacttctgcc cttaaccctt    420

gcctctat                                                               428
```


<210> 16
<211> 6823
<212> DNA
<213> Homo sapien

<400> 16

```
aaacttggag agacgcagga caggatcccg gcggcagaag gacggagaga aaggggaccc     60

cgggacggga aaggcgcaga gcaggcgcgg gcggcggcgg cggcggggca gggcagggcg    120

ggcgtcccgg cagagggcgc gcggtcgccc tgtcgccctc cgccccgccg gggtcacagt    180

gccccctccc tcgcgcccta gccgccctgc cgggctattt ttacgcgcgg acaccggaca    240

ccggacaccg ggctggggcg gcggcggcgg cggccgaggc ggccgaggcg gggccgcacc    300

ggggccgggc gtcggggcca cacgtcggtt cgcgggtcgc cggggctgcg cgcgccatgg    360

agccgcggtg cccgccgccg tgcggctgct gcgagcggct ggtgctcaac gtggccgggc    420

tgcgcttcga gacgcgggcg cgcacgctgg gccgcttccc ggacactctg ctaggggacc    480

cagcgcgccg cggccgcttc tacgacgacg cgcgccgcga gtatttcttc gaccggcacc    540

ggcccagctt cgacgccgtg ctctactact accagtccgg tgggcggctg cggcggccgg    600

cgcacgtgcc gctcgacgtc ttcctggaag aggtggcctt ctacgggctg ggcgcggcgg    660

ccctggcacg cctgcgcgag gacgagggct gcccggtgcc gcccgagcgc cccctgcccc    720

gccgcgcctt cgcccgccag ctgtggctgc ttttcgagtt tcccgagagc tctcaggccg    780

cgcgcgtgct cgccgtagtc tccgtgctgg tcatcctcgt ctccatcgtc gtcttctgcc    840

tcgagacgct gcctgacttc cgcgacgacc gcgacggcac ggggcttgct gctgcagccg    900

cagccggccc gttccccgct ccgctgaatg ctccagcca aatgcctgga aatccacccc    960

gcctgccctt caatgacccg ttcttcgtgg tggagacgct gtgtatttgt tggttctcct   1020

ttgagctgct ggtacgcctc ctggtctgtc caagcaaggc tatcttcttc aagaacgtga   1080

tgaacctcat cgattttgtg gctatccttc cctactttgt ggcactgggc accgagctgg   1140

cccggcagcg agggggtgggc cagcaggcca tgtcactggc catcctgaga gtcatccgat   1200
```

```
tggtgcgtgt cttccgcatc ttcaagctgt cccggcactc aaagggcctg caaatcttgg    1260

gccagacgct tcgggcctcc atgcgtgagc tgggcctcct catctttttc ctcttcatcg    1320

gtgtggtcct cttttccagc gccgtctact ttgccgaagt tgaccgggtg gactcccatt    1380

tcactagcat ccctgagtcc ttctggtggg cggtagtcac catgactaca gttggctatg    1440

gagacatggc acccgtcact gtgggtggca agatagtggg ctctctgtgt gccattgcgg    1500

gcgtgctgac tatttccctg ccagtgcccg tcattgtctc caatttcagc tacttttatc    1560

accgggagac agagggcgaa gaggctggga tgttcagcca tgtggacatg cagccttgtg    1620

gcccactgga gggcaaggcc aatggggggc tggtggacgg ggaggtacct gagctaccac    1680

ctccactctg ggcaccccca gggaaacacc tggtcaccga agtgtgagga acagttgagg    1740

tctgcaggac ctcacacctc cctagaggga gggagggagg gcagggtgga gggcaaggct    1800

gggggagggg gattgggttt aggaagagct aggttaagtc gtaacgagtg gggaaacact    1860

gagtcttgtt gggtcttggg ttgtgtggtt tggtagctcc tgtgggtacc tcctgaagca    1920

gcagcgaatg gcaatgggtt gtgttgtgtt aatgaagact caattggttc atattactct    1980

gagttgtgca aagctcatgg agccttttgg ggtagtgttg agataggttt ggtcgtatca    2040

ttttgtgagt ttcctaggtc agtgttgggt ttggttgggt tgtgagtctg ggatagtgtg    2100

gtccagctgc attgtgtagg attctgtggt ttggtgggtc ccctagggcc atgttgggtc    2160

aagttagatg gtcccccatg gcattgttga gatcgaatgt gtgtggtgtt aagtttcgtt    2220

gagacatggt ggaaattgtg tagctctgtg attcttccag gggcatgtta ttttaggttc    2280

tgtgaacttg cgagtcatgt agaaatgtga agagtccagt ggtagaattt gagctttcta    2340

ggtcacattg ggttaagttt gtatgaccaa atgaatcttg tagggttctg ttgggcttaa    2400

ctgtgtagag gtgtgtggct ggacattttt cgtggccaca gcgagttgag ttgtgttgaa    2460

ttgtacaacc atatgagcct tgtaaggcca gttcagttgg gtcatgccac tgtttgagtc    2520

tcatagggcc atgctgaatt gagttccatt gagttgtgtc actatgtgag tcctacagga    2580

agttgggttg agttggactg tgcgaacgag ttccataggg ccacatcggg ctgttttgca    2640

tttagtggta gcaccaggac ccaaaggaaa tagcagtggg gaagcatcat gtatctggga    2700

gcatgcagtg gcgagggctc tgggaggtgt gccgagctgg ctccccagct cgctgtaggg    2760

ggcgggactg gattctgtat ccatgggatt gggtgttcat ccagaggcga ctgggtaaat    2820

taggaagagg tggatgctcc tcctgtttac cccacatcca cttcattgtg ctgttcactc    2880

ccattctccc ctacagtttt atgctcagac atggaggtca gagccacaag ggaaaggggga    2940

gagggggaga aaactgtact ctgtccagac atgatagagg gacagagcca aaaggataga    3000
```

```
gaaagagacc cagaaaaagg aagaggtgga aacccagaga gacagagacc caaagggaga   3060

gaaacagaga ctcagggaga gggagacaat gacctggagg gtggggtatg gcagagacgc   3120

agaagagagg aacagaaatc cagagtgggg agacagagac caagagcagg ggatagaagc   3180

cgggcgaagt ggcccatgcc tgtaatctca gcactctggg agaccgagga aggggattg    3240

attgaggcca ggagttcaag accagcctgg gcaacatggt gagaccccat ctctacaaaa   3300

aatacaaaaa ttagctgagt gtggtggcac atgcctgtga tcccagctac tcaggaagct   3360

gaggcagaaa gatcccttga ccctgagagg tagaggctgc attgagccat gattgcacca   3420

ctgcactcca gcctgggcaa cagagggagc ccccgtctca acaaacaaac aaaaagagcc   3480

agtggggggag ggagggacag agacccagag ggcagcgtca gacacccaga gttggagaca   3540

gaacaacaga gtctcaggga aagagaacca caatagaaaa aggcagaaaa ggccgggcgc   3600

ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggtgggcaaa ttacgaggtc   3660

aggagatcca gaccatcctg gctaacacgg tgaaaccctg tgcctactaa aaattcaaaa   3720

aattagccgg gtgtactggc atgtgcctgt aatcctagct acttgggagg ctgaggcagg   3780

agaatcactt gaacctggga ggcggagctt gcagtgagcc aagatcacgc cactgcactc   3840

cagcctgggc gacagagcga gactctgtct caaaaataaa tgactagata aaaaaaaaaa   3900

ttgttggagt acattttccc tgcattttag agattaggac agtggtcact ttctagttgc   3960

cgtcttcaca gacaaacttg aaaggtatta aggaaaaaat tccacatagc tctgggcctt   4020

ttttgtattc tgattgccac gttaatctgt aatcgttaag tacccatgaa agaatgtgtt   4080

tcagtatcag tgctttttg gtactttaac aagtattgta ggcacggtgg atttttttga    4140

aatacccatg tgtccaatag caagttaagg aacctagcgc atcaaatttt gttttcttca   4200

ttcatttgga accttatttt cgcaaaaaac ctagctggaa taataatgcc atattgtatt   4260

ttgcacactg ctttattttc tagaggctct gggagcaaat tacattcatc acattacctc   4320

tgctctctca agattaaagt ctttcagcaa cattctttat tgtcatcata aggaaaaact   4380

tttatcgcaa tgatagtcag ttcacattag tttagcacta tagatagtat tcagaaattg   4440

ctttctcttt ggtaaagaag ataaataggt gaattttatt gcctgtgttt tcaggcttca   4500

gaggtacctg gcaccttact caagcaaaaa caaaaaacag ctttacttca aaagcatgtg   4560

cctctggtaa attatccatc acttttgttt taaagtggtc cctccaagaa taatgtggca   4620

tacacagtgg gtttggttgt aaggcagatg taatagatga cttcaaaagc ctgctcctta   4680

ctgcactctg gacaaggccc tggtctgtat agtttggctt cctctgttaa gtcattctac   4740
```

```
aaggtgactt gccatttgaa cttttcgtaag agacctcagc agttagactg agaaaagtta   4800

gagtgctgta gttatgaagt catacatttt tgataaaata cctgtggaaa accagggatc   4860

ctctcctgtt tctctctctt gcctcccccct ttccctccat tcctctgtcg cctcccccctc   4920

tcctccactt tctttaagaa tcaggggggta cagaataacc tacaaacaac ctcttcaaag   4980

taccccttgga aattgaagtt caatcttaag tttttttgctg tctttaattt actagaattg   5040

cctaattttt agttgatttc tctacagagc ttagcttgtg tagttatttc tcttttactg   5100

ttgctttggt gtgtcttgaa gtttgattga ttatttttgg tcattgagtt cttagtgtag   5160

tttgctagat gattattaag attcttttgt gtctgacact tgtggtgagt tgcttttgaa   5220

atctgttgag atttccatgt gagaactgat aatcaggctc ttgatctgct tccctaaatt   5280

acttttttag agcccaaacc ccaggtttag ggtgagggtt tgtaatacaa agaaacactt   5340

ccatcacttc tgcccttaac ccttgcctct attacctaag cttagtaagt agttttctta   5400

atattgtcca atgtttggtg ttatctgcat tgtttttttgt ttttttaatt gtggttgttc   5460

tgacgtgtga aatttaagga aagagccatt ttttaaaaat gccgagcagg gcaatgcaag   5520

tacagccaaa tattagactt gatgtgcaat cttcggtcct ttttaatctg gggtattata   5580

ggcagtactt taaattgcaa agtcttccgg gcctattttc tctacatttt ttgtaattaa   5640

ctctgggggc ttacttgttt tggcagtact gaaatcaaag gagctggttc ttcttttctc   5700

ccaattattt tcatatgaaa gcacctacaa ttagcctgtt agtcctattc agatacatca   5760

aatatcagtg aatgctttac tattcgcaca tttaagcatc tttgttttac ataaaattag   5820

agtatgaaaa ccagtgttca attttttatc ttgttgagct tgtaaaatgc cagcaattta   5880

aaactaggac ttttcccccc ataagccaag gaggtagaat tactaataca agggttaaag   5940

aaggtagatt ttgtttttcaa tatttgggta atattagaaa gattcttccc acagggaaga   6000

actagcaagt gtcccaattt tttccaaacg ttggggaggg gaaaattcac tgtatcatga   6060

aaccctaagg gtttgttgca cttcctgctt tttaggcctg gataacagta tcaccatcct   6120

tatttacaga agggtaaaac tgactcttaa tgagaaaagc tttataagtt caagggctgt   6180

aaaatatgaa ctacttaggg tcgtttgcct tccatgggaa cttggctaga cttagaaaaa   6240

gctgtttgtt gtgctaatgt aaaagtgtca tacaatttag aagatttttg aagatggtaa   6300

acttagaaga attctatgtt ctgaaatgca cacttttaga atgtttttct ttgaaaacag   6360

gctaatagtt ctttcttttt ttgacaaagt ttcagctcct ctttaaagtt attgtgtcat   6420

ttttctggtt taaatttccc ttatatttcc acctgtaatg tcagtggcaa caacatcata   6480

cttcacttac ttgttaattt acttttttacc cttattctaa gagcaagttg agttgaactg   6540
```

```
aatcttcctt gtcttagtaa caatgtataa atagtggctt ttctgtacaa aaggttgtaa    6600

tgcctcctga tggatataat tttgtgattg tatttaaaag ttgaataaat cacaccagct    6660

tcctgaaaat gttcataatg catcttttgg aaaacaaata catgcctact ttgtgcatat    6720

ttgcattaac atggcaaaga ttgtatgaaa tacctgtttt tcagaaaata aaggttcagt    6780

ctcaaaagat aaaaaaaaaa aaaaaaaaaa aaaaaaggcg gtc                       6823
```

```
<210>    17
<211>    984
<212>    DNA
<213>    Homo sapien

<220>
<221>    misc_feature
<222>    (211)..(456)
<223>    a, c, g or t


<400>    17
tggcccttttg agatttccta tctcaccgtt acttcagttt acccttgcag ggggccaggg      60

agtcaagaat ataccgtgtt cctccagggt ttaagccggc catgccttcc cgagagcata     120

accaacttga caggggtgcc cagttacccc acaaactgaa ggaaggagat ccttcccccg      180

tccccaggag tgctctcaac cagcctcaga nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnccct aaccggccta ccacgacccc      480

actgaacagc gcatgacgcc acgagaccgg aacgacaagg cggaccaaga cagaaatcag      540

actcaaacac aacagaccaa gataaaccgg caaatccacc acagaaatcc agggcagaaa      600

aaccgacagc aacagcacaa actcgtgaga ccaaaagagc gacacaaaag ggacaaaggg      660

aaacacgaac agaaaagcca gcctatgacc agcacgacac aaccccaaac gccaccagag      720

cacccagacc gagccataga caacaacacc gacagccata acgtacggac tgctgccgac      780

aacccaaccc agcacaaata aagacgcacg gaaccccaca tgcagagcct ccactgaatg      840

gcgccacccg cacggacacg acagcaaccg ccgcaatcag accaagcact ccccaacaga      900

ccacggagag acccgcaaca agcggcagca caagacacag atcggacaac accaagaaga      960

taggagagag ccccaggtaa caac                                            984
```

```
<210>  18
<211>  186
<212>  DNA
<213>  Homo sapien

<400>  18
ggtcgcggcg aggtacaaac gtgctgtaat tataagtctg tggtgcagtt ccattttatg        60

ctacacatta aggctttaa ttttgtgtaa aaggaatttt tggaatagtc ttcattgaga       120

ctcttttaa tcttatactt tctaatttag aattataaga cattcaattt gaattataga       180

aaaatt                                                                  186


<210>  19
<211>  418
<212>  DNA
<213>  Homo sapien

<400>  19
gatttgacta tatagccatg gtccttaatc atgctgagcg gcgcagtgtg atggatcgcc        60

cgggcaggtc acattggaat ttgaatgcag tggccaggac agcagcttga taaaccacct       120

tataggtagg taagcaagcc acgggattcc ctcggctggg ctggtgatgg ggaggggcgc       180

agtggacagg aagcgggcag ggcctgagga ccctgtactt taatgggcca caacagggct       240

cagctcctct cagaacttct gctacaatca gagttaagac cagatacatg ctacctaagg       300

ccatgaactt gacaatatct gctccagaga agccctgagc cctcgcccta ggtccctatg       360

attataaacc caatggtaag cccaagtctc acctttctaa atattctgtt tatcagtt        418


<210>  20
<211>  1811
<212>  DNA
<213>  Homo sapien

<400>  20
atcccgctaa tctggggggcc caatctcccc ccaggggctc ttccaagaca ccgaggcttt        60

cgctcgtccc tgtttaacag cctgcggtgt cttttatata tacgctccct gggggcccgt       120

gtcaccacaa cgtgtggtag tgaaatagtg gcgcctctgg aggaaattcc ttgatggcgc       180

cggcctcttg tatgtgttag aagacgctct ttactatggt gtggtctagt actaattgct       240

gattcatcga tgcggccttt tttttttttt tgacggttcc tatataacgt ttatttctgg       300

aagttaaagt agatacagca atataccaaa aaaaaaaaaa aaaaaaaaaa agacaaaaaa       360

cctcacaata atataaattt ttacactatg aagtacacat tggaatttga atgcagtggc       420

caggacagca gcttataaac caccttatag gtaggtaagc aacccacggg attccctcgg       480

ctgggctggg gatggggagg gggcagtgga caggaagcgg gcagggcctg aggaccctgt       540
```

```
tctttaatgg gccacaacag ggctcagctc ctctcagaac ttttgctaca atcagagtta      600

agaccagata catgctacct aaggccatga acttgacaat atctgctcca gagaagccct      660

gaaccctcgc cctaggtccc tatgatttaa acccaatggt aagcccaagt ctcacctttc      720

taaatattct gtttatcagt taagcttatt atgtactgaa gagtgttgct ggagaagtaa      780

gagctctgca tgacacatca actgtctcca ggcaggagga ctggggcgaa ccctgttcat      840

cctagagaag gtcgtctccc ccttaattca gagaccagct aatttgattt aacaaacaga      900

attccacaga aactctgatc agctgaggca aggtggtttt gagttgccaa atccggccat      960

gcctctgagt cagaggcagc ccatccagca cgtgctaggt gttcccatac gcacaggaga     1020

ggcgagctag ccagccaagg cgggcaggcg gggaggccct ctagctgttc tgcctcacct     1080

gtggggcccc agcagggagg agtcaccagc ctcagaggga ggccaggtat acaccctcat     1140

acgagggcag actcaagttt atcagtaagc ctttgccctg catgaactga atgaagacgc     1200

cattacaagt gccactggat atcaccaaga aactggctaa gaaccatatt cctgagctca     1260

accagacacg tcgctggggc cccatagtgt gcatcatgtc caacctgtaa ctctctcccc     1320

ctcttcttcc atgaggtcct gagaccagga ttcctaaaac aaacaggatg agggaccttt     1380

agacacgcaa ggagacatgc ctctagcagg atcaggggga ctggggtcgg gagggtgggg     1440

caggaaggaa gccagaatca gaagtatccc agccctgata aggcacccac agaaacaacc     1500

tagcctctga aacagcagat caagtccagg gagaaaggga gtcaaggttg taagcaccct     1560

ctgcccagcc ttactcacta aaaggccaat acattacaaa ggaaaataag tctatttata     1620

aaaaaaagtc taaaatgctt agattctcct taaaccttcc tatttcaaca ccaaaggcca     1680

ggttgcagct tcagatgtct taagggtttg acctgaagcc cgtttcaggg attatataaa     1740

ttaccagcct gaaggaagct gaatgcttaa agcaccaagg aggctgttaa ctgaagtttc     1800

tttttttttt t                                                         1811
```

```
<210>   21
<211>   602
<212>   DNA
<213>   Homo sapien

<400>   21
cggccgccgg caggtacagg ttttttttggt aatgcgattt aaaattttta aaaacatggg       60

cttcatgaaa acaccattgt tactaacttg ggcttagatg ggaatctaat gtgaatagtt      120

caagttatgg gacttgtcta aatgtgtcta tactctaaac ctgggggaag gtggtgtgga      180

acattgactt gactacagtc gaatacatgt tgggaatcat tcccaatcat aagacatcgt      240
```

cgtttctgta ggatgactgc atatgttcag agtagctttt tgaatttggt tcccttagct   300

ttagggatgt gatgttatag tccaaaatgt ttacaagaaa acctaagtct tcaaaagcac   360

aactttgtt gcttaggact ttgcatcaac tgttgttcca gacctcactt caacttcttg   420

gtctctgaac tggttttagc tagcatgcat gagagacagt tttcatgtat gctagctaaa   480

accagttcag agacagtttt catgtataat gtttctgctc tgcaactgga aagtggttta   540

ctttgcacaa atgctgatga aaacttcatg actatgagac ttttcttctg tgtatcaaga   600

aa   602

<210>   22
<211>   4114
<212>   DNA
<213>   Homo sapien

<400>   22
tttttttttt aattaggata atgcctttat taacgaaaat gaaacgttca ttcctccttc   60

cactcctttt cgttggtttt ttggacacag ctcacctgat cctgctaaaa acgttgtcag   120

tctgcttggg gcttccctcc ttgattgact cacgctgggg gatgtcttga aaagtattta   180

tccacttcat gggaatgagc cctccaatat cagccaacat caatcattct tacctaaaga   240

ataataagaa aaagttaata taaaagacaa gggtataaaa taaaggtttg aaaatgctag   300

tcaacttcaa aatttaaaga gtaaaaatcc agagataaag attgggggta agttacagca   360

taaaaaaata ggaagaaact tcatggtggg ggggaaatct aaaattattc ttacataaaa   420

taagtagaca cctgaattag aatgaaaact gtattttctt taaaatgtaa aagcctgact   480

ctcagtttca ccagtctgag cacaagtttg actgcaaccc aaaatatact atcccttatg   540

tgaaggtatg tgacaacgtt gacctcacca aatgagtttt aacatcagct ctttttttcat   600

atgaaagcac ataccctgct ccccattcaa gtatgtcttc cattgtcagg caggctgacc   660

accttcagca ggagtcctcc aagagtgccc aactcccctt cccacagtac acaacgctgt   720

agttgttgtc ctgcaatcct ttgtatttac ctcattcttt cccatctaag tcctcactga   780

gttttaaagt tagggctgga aaagctatgc cttactggga cagcaaggaa ccaatttttt   840

tctgagggag aagacattca ccttcactat atgcctggca gggccacagt gcacaaaaca   900

aagatcagcc ttcattcaag ttccaggttt ttcttcctcc ctgaatgatt actgcaaagg   960

gtatatgaag taagagttcc ctgttgcaca tgtaccatcc ataagggata ctatatcgtt   1020

ttgcattctt cccccccattc tccacattgt cctatcttaa gtccaagccc ttttcactct   1080

caaaaaaaaa aaaaaaatat tttttttcagc actggtgttc aaaagcaacg tttttatggt   1140

```
taatggttta ccagcaactg ttgagatttc cagttgagtc ttaaaaattg ccaatcatta   1200

tctagcagca atgacagatg attaggagca gtcaaatcct ctgaattctt tccctaatag   1260

gcagccattt gagaactgca ctagctgaca tcactaaaac attatcagct aaagccaaaa   1320

ccaaataaag gcccagacca acatcctggc tctctaaaac ctgtccaaaa tcattaagtg   1380

aaaggcagta aatgcaggac tgtggatcat gtcactgcag ctgacaatga ttaacaatag   1440

gagacatgca accccatta aggttaaaag tccaaaacta gtcacacgca tctctttatt    1500

ggggaaaagt gagactatta tgcattcttg gtaggtttgc aaccttgcat gaagagcacc   1560

cattgcattt ctttcatctt tcagaaagca ccggtatctg ttccaagggc ctaacagtac   1620

gaaaatacat tctggcatca cacctctgaa cccaagactg ttctcattaa aaataatttt   1680

ggtttgtaac aaaattatga aatacaatgc aagcacctcg gtatagcatt attactgaaa   1740

ccacttaatt cccagctttt tgagtttttt aaaaaaaccc actgcactaa gattcacaat   1800

tcattgctac atacaaatta aagctagtaa gaacacacta acgtcacaag tttctcattc   1860

taaagtgcaa aagcctaatc atctgaaagt gaacagggta aggcaaaatt aaccccccac   1920

cccaataaag ttcctgaagt ccatatatta tataccaagt acattctcta aaaattgtta   1980

ctgactggta agaaatagac ctgagttttt atttctaaca cccaatcact aaaccacggc   2040

agcaagcact ggccaccgat ttaatggatt acgacacagg aaaccccatc agggttctat   2100

gtaatttagt gatactcatg tcactaatat tgagcattat acttgatctg cattatattg   2160

ttgatatgca gaggctaaac tagtcatcat ttgctctttc atctatcagt agagtccaaa   2220

gttgtttgct tgaatggact acatgttaaa gtacaagtct gtccccacct tgtgaattgc   2280

ttgccaacga gcaagctttt tcttgataca cagaagaaaa gtctcatagt catgaagttt   2340

tcatcagcat ttatgcaaag taaaccactt tccagttaca gagcagaaac attatacatg   2400

aaaactgtct ctcatgcatg ctagctaaaa ccagttcaga gaccaagaag ttgaagtgag   2460

gtctggaaca acagttgatg caaagtccta agcaacaaaa gttgtgcttt tgaagactta   2520

ggttttcttg taaacatttt ggactataac atcacatccc taaagctaag ggaaccaaat   2580

tcaaaaagct actctgaaca tatgcagtca tcctacagaa acgacgatgt cttatgattg   2640

ggaatgattc ccaacatgta ttcgactgta gtcaagtcaa tgttccacac caccttcccc   2700

caggtttaga gtatagacac atttagacaa gtcccataac ttgaactatt cacattagat   2760

tcccatctaa gcccaagtta gtaacaatgg tgttttcatg aagcccatgt ttttaaaaat   2820

tttaaatcgc attacaaaaa aacctgtact tttagttcaa ctcaacttgt agaattacca   2880
```

```
agattgcata atgaaattac tgatattgcc gatctatggg caggtcagtt tgctacaata     2940

gagactaatt atcacatgct atacggtcca tgtcaaggtg ctaaaagcac cctagttccc     3000

aagtatagtt tagttccctc tcccccacac cactgatgtg ttccatgtta tcttcagtta     3060

caatgcaact aaaggaaacc acaactgagt cagatatacc aaagaatcaa gttgcacttt     3120

ttatctgaga actgcaacag cactgaattc tgcctgacaa attacagctc taaccccaca     3180

cccacacagt tttgatgtaa gctagcttta ccatacaagt gttaggtgct gcactgtaat     3240

ttcatgtcag aaatgtgatg ccagaatgcc cacggaataa aagtacatac aagtcaccaa     3300

gttagattat atgcttgtta cctacctgta tgcagtcggc aatgagaatc ttggagcaag     3360

caggaatact acatccgggt cctaatgtcc attgccattt gcggtactac gttcctcaca     3420

gttacgcact gcagaaatgc tggctaaatg cagttatgta gcaggccact actttaatag     3480

tgcataattg cagtccaaga acaccagaaa acattccgcc acaacttagt ggcttgccca     3540

agaaaagcca agtatctaaa ttttaatctg ccataatatg ccacttaaaa attgcacagg     3600

cgtaacatta caatttcccc attttttagc tgtttatatt agtggtacaa tacatctata     3660

aagagtggtg gggttaggtc tgtaatttgt caggcagaat tcagtgctgt tgcagttctc     3720

agataaaaag tgcaaacttg attctttggt atatctgact cagttgtgtg gtgtccttta     3780

gttgcattgt aactgaagat aacatggaac acatcagtgg tgtggggtta ggtctgtaat     3840

ttgtcaggca gagtgaggtt tgttgtggag ctggcagatc caaagttgga ggtgaaatgg     3900

tataaaaatg gtcaagaaat tcgacccagt accaaataca tctttgaaca caaaggatgc     3960

cagagaatcc tgtttatcaa taactgtcag atgacagatg attcagagta ttatgtgaca     4020

gccggtgatg cgaaatgttc cactgagctc ttcgtaagag agcctccatt tatggtgccg     4080

agcagctgga tagaaacccc cgctgattgt tgtt                                 4114
```

```
<210>   23
<211>   234
<212>   DNA
<213>   Homo sapien

<400>   23
agtgtttgca acagcaccat ttgtcaaatt caaagatgct caaaaggtgt tccctacttt       60

gcatgagagg gagagctttg taacaggaaa ttgtataagg caaactctct attcattcct      120

aaggcctctg ttcattccta atgtttacat ggttctctac tctgaagggc accaacatgg      180

acctcacctt cttaacatgg aaaatcaaaa tctaaatgaa tacaattaaa agga            234


<210>   24
```

```
<211>    600
<212>    DNA
<213>    Homo sapien

<400>    24
actgcattgg  tggcttctcc  atagggaggg  ggtcctatct  catagactcc  aaacttcatg       60

atggcaggga  ggatatctgg  atttgctcac  ccctgtattt  tcagagcctc  acacagtgcc      120

cggaacatgg  taaacattta  atactatctg  tcaaaaacaa  atgactgaaa  gagcagatgg      180

aaagagccaa  tcctgcattg  aagagatatc  catggtggcc  ctaaaactac  tcaaaccaga      240

tgtctcttca  gcttcccact  ggaaaatgga  ccggtgggca  aaccaccatc  tcacatctca      300

gcgagagggt  caatgtgcaa  aagtatttaa  atagcgacga  ggtcccacac  cccatcccag      360

gacagccccc  agcatcctgc  tccaacataa  gcagaaaaag  acaatgaggt  gcaaagagct      420

tatctcctgg  gatggttccc  gggtggtctg  cattgccaca  cagcacatca  tgctttgatc      480

ctgaaggaca  aggccccaat  aagccctatt  tctcagcaca  gtcttaaaat  cacctggaaa      540

tcattccacc  taggacccct  cgtgaatcag  cactgatccc  aagcgacacg  ggaaccccta      600


<210>    25
<211>    496
<212>    DNA
<213>    Homo sapien

<400>    25
ggcaggtaca  ttgtaataat  aaccacaaaa  taattgtata  aggagaaaaa  taataactga       60

cattcatggc  cctctgcaag  gcacagtatc  tgctttctca  tttggtcctt  cgttggttcc      120

atcctttgaa  ggtctgagag  cagcaggccc  attccatgaa  caccaaagcc  cttcctacca      180

cgccagccca  gactgccatt  tcccctccag  aaggccagtg  ttcatcatcg  atagggctag      240

agaccatccc  ggagtcccca  tgtttcagga  ctcccgaatc  ttcaaatagt  ccatctttaa      300

gaagggatct  cctggcagct  aagagggtga  agctaatcgt  tctacaaagt  agtgcctaac      360

tgttgataag  atggcagtgt  gtaggaagct  gtgtgttggg  tcggattccc  cttttcatga      420

gccattttct  gtggtaggtt  ccacggacat  ggacaccatg  gcctcatgga  agcatgaaca      480

gctccaacac  agggtg                                                         496


<210>    26
<211>    1690
<212>    DNA
<213>    Homo sapien

<400>    26
atgcctagca  cggatgctgg  tgcctcgcag  ggtttacgaa  tgatctgtcc  cgtctccagt       60
```

```
gacgccctct caggacccac taccgaagtc attaggactc ctttgtttgc agatgacagt    120

taccgagctc agataagagg tggcaaagag tgccagtccc ccatcaaggg tggacccaac    180

aggtggacag ctcagagagg cctggatgcc ggggatgggc tctcagcaga tgtaggagga    240

gctcaagtgc tggcaacagg caagacccct ggggctgaaa ttgatttcaa gtacgccctc    300

atcgggactg ctgtgggtgt cgccatatct gctggcttcc tggccctgaa gatctgcatg    360

atcaggaggc acttatttga cgacgactct tccgacctga aaagcacacc tggggggcctc    420

agtgacacca tcccgctaaa gaagagagcc ccaaggcgaa accacaattt ctccaaaaga    480

gatgcacagg tgattgagct gtaggtgagc agtgacgtga gagggggttc tagccccgtg    540

gaaaacagcc catggttaac atctcaggat gttctgcatt caaacaccca aggctggtaa    600

tgaactttca catggactga atattggagg caaataatag aaggaataga atatacagtg    660

cctctgtcct gaaggaaaat atcatgcctc ttctggaaga aacggactgc acagaggaag    720

gattgagcaa tttagcctgc agtggaagaa ggtggacacc aaaagcttca ccctgtgttg    780

gagctgttca tgcttccatg aggccatggt gtccatgtcc gtggaaccta ccacagaaaa    840

tggctcatga aaagggggaat ccgacccaac acacagcttc ctacacactg ccatcttatc    900

aacagttagg cactactttg tagaacgatt agcttcaccc tcttagctgc caggagatcc    960

cttcttaaag atggactatg tgaagattcg ggagtcctga aacatgggga ctccgggatg   1020

gtctctagcc ctatcgatga tgaacactgg ccttctggag gggaaatggc agtctgggct   1080

ggcgtggtag gaagggcttt ggtgttcatg gaatgggcct gctgctctca gaccttcaaa   1140

ggatggaacc aacgaaggac caaatgagaa agcagatgct gtgccttgca gagggccatg   1200

aatgtcagtt attattttc tccttataca attattttgt ggttattatt acaatgtaca   1260

tggctgttgc atagaagaca tgactggtgg aggctgagga aagccatgac attctacaat   1320

tgccatcagg ctaaggcccc gtgagcattt ctctcccttg taatattaac cctgtatttc   1380

tgggatcaca tcacggaata ttctttgcct ttccactttc caggaaatct ctcggactgg   1440

gctaccctcc ttgtgtgtga tgaaagatga gctatatttc agaacaaagt gctgtgttgt   1500

catgatttgc ctggactccc agggcgtctc ttacccaact tgataacgat gctgttcatt   1560

agcagccttt gttaactgat aaccaagagc ggtaatgtga tactcataag caattttctg   1620

tgtgtaggat aaaataaacc atcttgtatg ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa   1680

aaaggcggtc                                                         1690
```

```
<210>  27
<211>  461
```

```
<212>    DNA
<213>    Homo sapien

<400>    27
gggtgataat catataggcg aatggtctct agatgctgct cgagcggcgc agtgtgatgg      60

atgcgcccgg gcaggtacca agctcccagg cccttcctct atcatggatg ctgggtgact     120

tcgggaagtc accacctctt cccaagcctg tttcccatat cacagatgtg gggccatggc     180

ctcgatgatg gtctccacag gtctttccac ctctgtgagt ccaagtcagg tcaatcagca     240

aggacccatc tctgccctgg gtcagctcct cagaaccaac ccccagcatc cctaaagcaa     300

aagcctcacc tcaagggctg ctcagaagag agcaccttca gcatgagttg ttgctggaag     360

atctaataag ctgtgtttcc tgggaagtgg tgctttactt agccctgtgg acaacttctc     420

tatgcatctg tgtgagcaga tgatcattgt attacctttt a                        461


<210>    28
<211>    4043
<212>    DNA
<213>    Homo sapien

<400>    28
ccgcttaatt aaagatcttt ttttttttttt tttttttctc ataaacagga actttattaa    60

actacatgtt acataaaaga acatataaat ggaccattaa atacattcag tttatttttaa   120

acaaatttac atagatactt atttacattt ctccattgta ttcttaaatt attttttccaa   180

gcttactacc gataaaaggt aatacaatga tcatctgctc acacagatgc atagagaagt    240

tgtccacagg gctaagtaaa gcaccacttc ccaggaaaca cagcttatta gatcttccag    300

caacaactca tgctgaaggt gctctcttct gagcagccct tgaggtgagg cttttgcttt    360

agagatgctg ggggttggtt ctgaggagct gacccagggc agagatgggt ccttgctgat    420

tgacctgact tggactcaca gaggtggaaa gacctgtgga gaccatcatc gaggccatgg    480

ccccacatct gtgatatggg aaacaggctt gggaagaggt ggtgacttcc caaagtcacc    540

cagcatccat gatagaggaa gggcctggga gcttggtacc cagggttcct ccaagaggtc    600

ccgatccctc tgctatccac aaatccacaa acttagaatc acttgcatcc attttccacc    660

accatggacc ttatgctttg aactgttttg tctacctgat taaatatata acttcttagg    720

cttcttgaga tggtgaaaag cagctcagga ttcccataag caactttgtg gagccctgga    780

aatacctact cagggctgtt tttacaagag gttttgtggt caggtgcttt actacttcag    840

ccataacgtt tacctttaaa actcagctga cttatggaag ctcagcattt ccaattcgct    900

tagatgacag gcaacagtct gcagaaggga ggttctaacg tcaaccacgt ggattcccca    960
```

```
caaacgcatc atatttgcct aaatccatct atctaccaat gtcagatcta aaatgaggtt   1020

tcactaataa gtgacctaaa attaaaaaaa acacaaaaaa gtttcttaaa aaaaaaattc   1080

caagaatttc cccgtttccc aattagtctc agaggagtcg tgaaatgggc attgggtaga   1140

aaaagtccat gttttcaact gtttctttg aataaagcct gattccccca ctctgccccc    1200

aaactttttcc cgatgatata cattcttctg aaagcaattt catgctttta gtctgcttta   1260

aaaaacctga cttggttctt ctcaggattt aaaaaccact gtaccaagga agagatgtcc   1320

acgttaaaaa ctattattaa gagacagaga caaggagaga gagactctct ccaggccatg   1380

ttagaaaaga aggaagtgct gggagcacac aaagagagaa gaaaggctgg gagacagaat   1440

ggtttgcacc tccctgtaac cagagtgaac acaggtcata gcagccttca ctcagtttta   1500

taacagacac acgaatggag gaacatggga ttggaaagac gcacactgtc aaacagccct   1560

gatgcctttc cactaaaata tggcacttct agattccaga gaaatccagc attctaccag   1620

gggctgccac ccatctgcag ggaagcctgc cctgcaacca tgaggccctc aaggctcata   1680

ctccactgct cacaatgcgc gccctgaata catggaagca tctgatttct gtctgagtcc   1740

aactttccct cctgttccta gacagactca cacccagagt catgcacgga gaagtgggca   1800

agccagacaa tcttcaggga gacacagccc atcacaggat acccaaggct tatggggaag   1860

tccagttgcc agcaacggac cctgtgtggg caggtgaaac tctgaagcca gagaacacag   1920

gaagataaaa atatcttcat actgaggata tactgcacaa gtgtggtggc tcacacctgt   1980

aatcccagca ccttgggagg ccaaagtggg ctgatagctt gagcctagga gtttgaaact   2040

agcctgggca acataatgag accctaactc tacaaaaaaa aaaaaaatac caaaaaaaaa   2100

aaaaaaatca gctgtgttgg tagtatgtgc ctgtagtccc agctatccag gaggctgaga   2160

tgggagatca cctgagccca caacctggag tcttgatcat gctactgaac tgtagcctgg   2220

gcaacagagg atagtgagat cctgtctcaa aaaaaaaaat taattaaaaa gccaggaaac   2280

aagacttagc tctaacatct aacatagctg acaaggagt aatttgatgt ggaattcaac    2340

ctgatattta aaagttataa aatatctata attcacaatt tggggtaaga taaagcactt   2400

gcagtttcca aagattttac aagtttacct ctcatattta tttccttatt gtgtctattt   2460

tagagcacca aatatatact aaatggaatg gacaggggat tcagatatta ttttcaaagt   2520

gacattattt gctgttggtt aatatatgct ctttttgttt ctgtcaacca aaggatggac   2580

agtgattcag aaccgtcaag acggtagtgt tgactttggc aggaaatggg atccatataa   2640

acagggattt ggaaatgttg caaccaacac agatgggaag aattactgtg gcctaccagg   2700

taacgaacag gcatgcaaaa taaaatcatt ctatttgaaa tgggatttttt tttaattaaa   2760
```

```
aaacattcat tgttggaagc ctgttttagg cagttaagag gagtttcctg acaaaaatgt    2820

ggaagctaaa gataagggaa gaaaggcagt ttttagtttc ccaaaatttt atttttggtg    2880

agagatttta ttttgttttt cttttaggtg aatattggct tggaaatgat aaaattagcc    2940

agcttaccag gatgggaccc acagaacttt tgatagaaat ggaggactgg aaaggagaca    3000

aagtaaaggc tcactatgga ggattcactg tacagaatga agccaacaaa taccagatct    3060

cagtgaacaa atacagagga acagccggta atgccctcat ggatggagca tctcagctga    3120

tgggagaaaa caggaccatg accattcaca acggcatgtt cttcagcacg tatgacagag    3180

acaatgacgg ctggtatgtg tggcactctt tgctcctgct ttaaaaatca cactaatatc    3240

attactcaga atcattaaca atattttaa tagctaccac ttcctgggca cttactgtca     3300

gccactgtcc taagctcttt atgcatcact cgaaagcatt tcaactataa ggtagacatt    3360

cttattctca ttttacagat gagatttaga gagattacgt gatttgtcca atgtcacaca    3420

actacccaga gataaaacta gaatttgagc acagttactt tctgaataat gagcatttag    3480

ataaatacct atatctctat attctaaagt gtgtgtgaaa actttcattt tcatttccag    3540

ggttctctga tactaagggt tgtaaaagct attattccag tataaagtaa caaacacagt    3600

ccctagatgg attgccacaa aggcccagtt atctctcttt cttgctatag ggcacaggag    3660

gtctttggtg tattagtgtg actctatgta tagcacccaa aggaaagact actgtgcaca    3720

cgagtgtagc agtcttttat gggtaatctg caaaacgtaa cttgaccacc gtagttctgt    3780

ttctaataac gccaaacaca ttttctttca ggttaacatc agatcccaga aaacagtgtt    3840

ctaaagaaga cggtggtgga tggtggtata atagatgtca tgcagccaat ccaaacggca    3900

gatactactg gggtggacag tacacctggg acatggcaaa gcatggcaca gatgatggtg    3960

tagtatggat gaattggaag gggtcatggt actcaatgag gaagatgagt atgaagatca    4020

ggcccttctt cccacagcaa tag                                           4043


<210>   29
<211>   176
<212>   DNA
<213>   Homo sapien

<400>   29
ttataataac aaaaaaagtg tgaggggatg ttttcccaag cccccttctc cggtgggcgg      60

ctctcgtgtg aggacccatg gtgacagagt ctctctcatc tcctcactct gaaagcattc     120

cactggggag agtcaaccct ggctcggggc ttcctccaca cagcacacgg cccttc         176
```

<210> 30
<211> 1332
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (623)..(642)
<223>

<220>
<221> misc_feature
<222> (623)..(642)
<223> a, c, g or t

<400> 30
atcccgggaa cttgacacct cgtcccgggg cagcagcggc tctcctgcgc acgccgagtc   60

ctactccagc ggcggcggcg gccagcagaa attccgggta gatatgcctg gctcaggcag   120

tgcattcatc cccaccatca acgccatcac gaccagccag gacctgcagt ggatggtgca   180

gcccacagtg atcacctcca tgtccaaccc ataccctcgc tcgcatccct acagcccccct   240

gccgggcctg gcctctgtcg ctggacacat ggccctccca agacctggcg tgatcaagac   300

cattggcacc accgtgggcc gcaggaggag agatgagcag ctgtctcctg aagaggagga   360

gaagcgtcgc atccggcggg agaggaacaa gctggctgca gccaagtgcc ggaaccgacg   420

ccgggagctg acagagaagc tgcaggcggt gaggaactct gcgtagggtg ggagcacctc   480

tgggtgggct ggagtgagag ccccggggggt cctgatcctc tctcccacag ctgtctcctt   540

acccacaaat gccctacaga tgagtcagtg gagatagagc tttccttcct ttggacacat   600

gggtcagcat tgtgttgatt gannnnnnnn nnnnnnnnnn nngtggcgtt tagcaccagc   660

cagggcccag agggaagaaa tgaacaacct tctgtggggg tgctagccac ggttttacg   720

cagcacctga gtgttctctg ctcacagaac tgtgggggct cctgggtgag ggatgatgga   780

gggtgggagc cagggcaggt ccagacctgc cccatccagg gctgcttccc gaggttccag   840

ccactcccat gcctgccgcc atcaggagtg gcccagcctg cctaagcac tctgggttgg   900

gccagagaga agtcttgatg gagataggtc acgtggcagc agggttgtat tttcttgggg   960

tttttctcatt tcctttatgg gcaggcgggt tccccacctc tatcatgaac tcagagctgt   1020

ggccatggta ccgcgtgctg ctcttgtgag tcactctccc gtgccgccta attgcccaga   1080

cctggggacc cgcagccctg cccttccctc tgttaagctt gacctgacca acgtcacgta   1140

actcccttca gagcctggcc ctgcaggaag ggccgtgtgc tgtgtggagg aagccccgag   1200

ccagggttga ctctccccag tggaatgctt tcagagtgag gagatgagag agactctgtc   1260

agtggtcctc acagtgactg cccaggatgg ggcttgggaa aacatcccct cacactttt   1320

ttgttattat aa   1332

<210>   31
<211>   571
<212>   DNA
<213>   Homo sapien

<400>   31
gccgcccggg caggtacctg tagtcccagc tactgaggag gctgaagcag gaggatccct   60

cgagcacaaa agtttcaggc tgtggtaagc tatgactgtg ccactgcaca ccagcctgag   120

ttacagaggg agatcccaac tcttaaaaac taaaacaaca ataaatatat acaagaatca   180

taacataaag ggattcatgc ttagaaaaaa tccataaact cccttctaaa tattgagaca   240

ctccaggctt ctttcagaca ataacttct aattattcca tatttttcaa gttattaacc   300

aagataaaga atctctcagt tagtggggaa aatgaaaatt attaagaata gaattgtctt   360

ctgactttaa aaacaattta gactttaaaa catgaactgt ttactcaggc tggtgatact   420

ctagtttgtt agtataccat acttgaagat atcatcaaga tcactatagt tgtatatatt   480

ctctattttt atatgtaatg ttaacttagt tcaagtattt tttgcttgta tcgttaactg   540

atcatcaaat acaatcctaa agatatatca g   571

<210>   32
<211>   240
<212>   DNA
<213>   Homo sapien

<400>   32
ccgggcaggt acatattcta cagaaaaaaa tcaaatatgt atacaaataa gtatgcacag   60

gatttagaat cttacataaa aatgtattta acttggctgg agtgtgtgtg tgtgtttccc   120

aggttaagta aaattagaaa gccagaatca caagccacaa aaaagaaaaa ctgataaatt   180

agataccatc aaaattaaaa tctctaactg ctacaaataa taccatcaag aatgggaatt   240

<210>   33
<211>   1026
<212>   DNA
<213>   Homo sapien

<220>
<221>   misc_feature
<222>   (883)..(883)
<223>   a, c, g or t

<400> 33

```
aatagctcga ccgcgcgttt tgatggatga gcgacgaggt caggaggacc tgtatcacaa        60

aaaaaaagaa aagggaaaaa agaagagaaa gcagcagcat gatacctgac atgacagatg       120

tgggagaccc acagcctgca gacactgtgt ggctggaagg tggcgacggg agtggtgccg       180

gtggagtgtg gagctgtctg aaagtgacgc agcagacagt agaagcatag gtgggcgaag       240

cccaggtgac cctcaaaacg ttgcacaaga acatcaggga aaaagaacta gaatccttta       300

aggaaaatgt tcttcatgta tgagagacta aagtgatttt tctaagaaag ttcagccctt       360

ctctgactta cctggacatt tctagatact tccaaaggac cctctgggaa tccatagctt       420

cctaatctgg agatgggagg tcataaggga gacgctgtgg ggttccttga agtttcttgg       480

gttcacagag gagccccctc acttggtgtt ctcccgtgag ccagcctcca cctgccaaag       540

acactctggt cctcgtatag tgagtaatgg ggctcagggc ctctccaaca acagagagga       600

gctgatgctg tagggctgac cccgtgactt cctggagtcc tcaccctgtc cagtgctttg       660

agattcttcc cacctcccca tcctcaccag ccggatcggg cgctgtgcag tgtggtcagc       720

atggtgaaga aagtcatttc cttggtggac agtattcctc tttatctctc attacactgg       780

aaatgttatt tctgctgtat catccgtgct ccaacgtttc tagtctgtca ggctcacctt       840

ctctctggaa agaattgctt aacttgacat tccatgtgcc gcntataaaa tatattttga       900

aagaacaaaa aaaaccaaaa aaaaaaaac ggtgggggta acctgggcca aaacgcgtcc       960

ccggggtgaa ttgttctccg ccccactcaa ccccaccaac aaaaaaataa acagacaaaa      1020

aacaaa                                                                 1026
```

<210> 34
<211> 1545
<212> DNA
<213> Homo sapien

<400> 34

```
gccgacaatg acatcggagc cgtctcaacc acagggcatg gggaaagcat cctgaaggtg        60

aacctggcta gactcaccct gttccacata gaacaaggaa agacggtaga agaggctgcg       120

gacctatcgt tgggttatat gaagtcaagg gttaaaggtt taggtggcct catcgtggtt       180

agcaaaacag gagactgggt ggcaaagtgg acctccacct ccatgccctg ggcagccgcc       240

aaggacggca agctgcactt cggaattgat cctgacgata ctactatcac cgaccttccc       300

taagccgctg gaagattgta ttccagatgc tagcttagag gtcaagtaca gtctcctcat       360

gagacatagc ctaatcaatt agatctagaa ttggaaaaat tgtcccgtct gtcacttgtt       420

ttgttgcctt aataagcatc tgaatgtttg gttgtggggc gggttctgaa gcgatgagag       480
```

```
aaatgcccgt attaggagga ttacttgagc cctggaggtc aaagctgagg tgagccatga      540

ttactccact gcactccagc ctgggcaaca gagccaggcc ctgtatcaaa aaaaaaagaa      600

aagggaaaaa agaaagaaag cagcagcatg atcctgacat gacagatgtg ggagacccac      660

agcctgcaga cactgtgggc tggaaggtgg gaagggaggg gccggtggag gtggagctgt      720

ttgaaagtga cacagcagca gtagaagcag tggtgggcga agcccaggtg accctcagaa      780

cgttgcacaa gaacatcagg gaaaagaacc agaatccttt aaggaaaatg ttcttcatgt      840

atgagagact aaagtgattt ttctaagaaa gttcagccct tctctgactt acctggacat      900

ttctagatac ttccaaagga ccctctggga atccatagct tcctaatctg gagatgggag      960

gtcataaggg agacgctgtg gggttccttg aagtttcttg ggttcacaga ggagccccct     1020

cacttggtgt tctcccgtga gccagcctcc acctgccaaa gacactctgg tcctcgtata     1080

gtgagtaatg gggctcaggg cctctccaac aacagagagg agctgatgct gtagggctga     1140

ccccgtgact tcctgagtcc tcaccctgtc cagtgctttg agattcttcc cacctcccca     1200

tcctcaccag ccggatcggg cgctgtgcag tgtggtcagc atggtgaaga aagtcatttc     1260

ctcggtgggc agtattcctc tttatctctc attacactgg aaatgttatt tctgctgtat     1320

catccgtgct caacgtttta gtctgtcagg ctcaccttct ctctggaaag aatttgctta     1380

acttgacatt ccatgtgccg ctaataaaat atattttgaa agaaaaaaaa aaaaaaaaaa     1440

aaaaaaaacg gtgggggtaa cctgggccaa aacgcgtccc cggggtgaat tgttctccgc     1500

cccactcaac cccaccaaca aaaaaataaa cagacaaaaa acaaa                     1545
```

<210> 35
<211> 338
<212> DNA
<213> Homo sapien

<400> 35
```
tgatcactca ctataggcct ggtgctctag atcatgctcg agcggcgcag tgtgatggat       60

ggccgcccgg gcaggtactc agaatggagg ggctggaagt ggggccagtg gtcctggtag      120

tcagcctccc cttctgacac aagaattatc gtggaacagc ttgtgtgacc gatcaactgg      180

tctctccatc tttaagccat tgtcttgttg actctgttac tgcagagttt ggggaggtct      240

catggcttct cgggatccta tttcctgagc ttccctgaag ccaacttctg gccactggta      300

tgtgatgcga gcacagtgcc tcctcctgct cctccagg                             338
```

<210> 36
<211> 1851

<212> DNA
<213> Homo sapien

<400> 36
```
gccgcatatt tttttttttt ttttttttttt tttttcaagg ttggaaaatc ccactttact      60

tcaagtgaag tcactgggtt gtccccatga aatatctcca caatgggtgt gctagacctt     120

tactctctgt ggcaccacca agacccctc accctgccag agccctctga agtgtactca     180

gaatggaggg gctggaagtg gggccagtgg tcctggtagt cagcctcccc ttctgacaca     240

agaattatcg tggaacagct tgtgtgaccg atcaactggt ctctccatct ttaagccatt     300

gtcttgttga ctctgttact gcagagtttg gggaggtctc atggcttctc gcatcctatt     360

tcctgagctt ccctgaagcc aacttctggc cactggtatg tgatgcgagc acagtgcctc     420

ctcctgctcc tccaggaagc ttctgctgat tgaacgcagg ccagatggcg agatccggag     480

caaccttctt agatcaaggg aagaaagggg cacaagaggg gagtaggtaa caagataaaa     540

ggagctccct ccctgatgac tacagagcca tcgtggcagc cctgggcctc catttcagac     600

gttcatcttg cctaagccac caccatcagg gtctcagtca gtcatcattc tcatttactc     660

gggtggctgg gtgagggcgg aatactacct tccagctgtc tgagattaag cctaagccac     720

caccatcagg gtctcagtca gtcatcattc tcatttactc gggtggctgg gcgagggcgg     780

aatactacct tccagctgtc tgagattaag cagaacagca gctaaagcag taacagcagg     840

tctccttcag cagcttgcca cagggaagag ggtcccgcgt gaaccgaact caacttccac     900

ctgcgcagag gtagctacca tttgcgtaga ggtagctggg tctttaaggt tagagggaag     960

gcgcagggag ggagagacgg cgggtggggg ttgaacaaag tggagattca caaaagcaga    1020

ctagggcggg cgacgtgatc agatgacctg tgcgggcggc agcctcctgc cctcctcccc    1080

ttcgtgcgcc ggctggagcg aagagttctt ttgacagccg tgagcttccc cgccaggaac    1140

ttactggggc tgcatcaccc tagaaacgtg gctttgggct gtggaaacgc tgcctctgtg    1200

gaagtctctc ctcgcggggg tggacgggtc gctgcgcgcc cagcgttctt ctgcggttct    1260

cacagcccgc cgccgccgcc gcctcgggga cctttgcggg gaggcctcag gtcagcgccg    1320

cccttgcgat ggcgggagag cagagcggcc ccagggcctc tgagctccgg ccccggcacg    1380

tcccgccctc tcctccgctt gcgggagccg gggcgcctcg gagggaaacc ttccggacac    1440

aggccgggag aagaggggcc gtggcgccat cgcgcagctt cctggtttcg gccatgtttt    1500

tttttttttg agacggagtt tcgctctttt tgcccaggct ggagggcaat ggcgccgtct    1560

cggctccctg cagccgccgc ctcccgggtt gaagggactc tccggcctca ggccgcggtg    1620

ttcttgtaaa ttagaaccgg cctatgcgcc aagcgcgggt ctcgcggctg cggagagagg    1680
```

cccagcaggg ggcgggggacc ccgggaggcg gggcctggcc gagctgcgca cacccgggtg   1740

gttctggcta cgggtacccg gacctgccca acgaccgttc tccattcccg acctccgcac   1800

cctacccggt ccgcagggca ccttcctcct ctctctcagg cacgtcctcg a   1851

<210>   37
<211>   409
<212>   DNA
<213>   Homo sapien

<400>   37
gagagcaagt tcaagcaggg ccaggaacag gacagccggc aggagagcag gctcaacgag   60

gactttctgg gaatgctggt ccacaccagg tccctgctga aggagacact ggacatctct   120

gtgggactca ggaacaaata cgagctgctg gccctcacca ttaggagcca tgggacccga   180

ctaggtcggc tgaaaaatga ttatcttaaa gtataggtgg aaggatacaa atgctagaaa   240

gagggaatca aatcagcccc gttttggagg gtgggggaca gaagatgggg ctacatttcc   300

cccatacaata ctattttttt atatcccgat ttgcactttg agaatacatc taaggtcatc   360

tttcaaaaga gaaaaattgg acacttgagt gacttgtttt tagtttgtt   409

<210>   38
<211>   2112
<212>   DNA
<213>   Homo sapien

<400>   38
ttgagagcag agagatcctc aggatatctt tagccaaagg aaaagctccg cattcccacc   60

cagtccagaa attgaaatac tatcagggggg caagagcctt tctctccagc tacacactcc   120

atctcccggg agcaagggga aactccgaga ggagggcaac agagccagca tcttgccagg   180

gccccggagg aggggttccc cgctacgcct gtgccggagg agttccagtc accgagcgag   240

gggcgcaagg gtgggtgcat cctgcgctgc ggcgggcgcg ctacccagac gctggtgtgc   300

agagccacat gaagcctgct ggggactggg ggccagggag cagcaagcca gctgggactg   360

aggcggacgc tgtctcaggg agacgctgac tcgcaaagac actcccttcc ttgtgcctgg   420

gtaaaaagtc tcctcctggg gtccctggcc atcctgaata tccagaatgg tgtttctgaa   480

gttcttctgc atgagtttct tctgccacct gtgtcaaggc tacttcgatg ccccctcta   540

cccagagatg tccaatggga ctctgcacca ctacttcgtg cccgatgggg actatgagga   600

gaacgatgac cccgagaagt gccagctgct cttcagggtg agtgaccaca ggcgctgctc   660

ccagggggag gggagccagg ttggcagcct gctgagcctc accctgcggg aggagttcac   720

```
cgtgctgggc cgccaggtgg aggatgctgg gcgcgtgctg gagggcatca gcaaaagcat    780

ctcctacgac ctagacgggg aagagagcta tggcaagtac ctgcggcggg agtcccacca    840

gatcggggat gcctactcca actcggacaa atccctcact gagctggaga gcaagttcaa    900

gcagggccag gaacaggaca gccggcagga gagcaggctc aacgaggact ttctgggaat    960

gctggtccac accaggtccc tgctgaagga gacactggac atctctgtgg ggctcaggga   1020

caaatacgag ctgctggccc tcaccattag gagccatggg acccgactag tcggctgaa    1080

aaatgattat cttaaagtat aggtggaagg atacaaatgc tagaaagagg gaatcaaatc   1140

agccccgttt tggagggtgg gggacagaag atgggctac atttcccca tacctactat    1200

ttttttatat cccgatttgc actttgagaa tacatctaag gtcatcttc aaaagagaaa    1260

aattggacac ttgagtgact ttgttttag ttttgttttt gtacattatt tatgtgattg    1320

ttatggaatt gtcacctgga aagaacaatt ttaagcaatg tcatttctag atgggtttct   1380

aattctgcag agacacccgt ttcagccaca tctaaaagag cacagtttat gtggtgcgga   1440

attaaacttc cccatcctgc agattatgtg gaaataccca aagataatag tgcatagctc   1500

ctttcagcct ctagccttca ctcctgggct ccaaaagcta tcccagttgc ctgttttca   1560

aatgaggttc aaggtgctgc tttgcatgcc tgccaaccca tggaagttgt ttcttacttc   1620

ttttctctct tatttattaa ccatggtctg agagttgttt ttgttctatg taacagtatt   1680

gccacaaaac tataggcaaa tcgtgtttgc agggagattt ctgatgcctc tgtgggtgtg   1740

tgtaagttaa agtggccaca tttaagaagg ccaagctttg tagtggttgc acagtcacac   1800

tgatatgctg atttgctctt tctcattgta tgtctatgct ttgtcatcag tgctatagta   1860

aattacaaag aaataggtag attgtatgaa catacccaca aatgcctatg atttaggtta   1920

ccaatgtatt ctttctcatt tggggttttg cttctgtctg tctgtttatt ggaaacttgt   1980

acttcaagta gggggaatcc taattctaat aactccttag ctaagtttta ttattcaggc   2040

aataaacatg ttttcatgta aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa    2100

aaaaagatcg gc                                                     2112
```

<210> 39
<211> 713
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (260)..(539)
<223> a, c, g or t

<400> 39

```
ccgcccgggc aggtacctac ctgatgaagc tgttcatgct tccagcatca aactggacgt      60

ttactgtctg cccaaaagcc agtttccaaa aggtttgctt ccctctgttc agtggattct     120

tgactacata taggtcatat atttcaaaaa ataatgccta gctatttcta ctttgaaatc     180

atgactaaag ccaaaccaca accacagcaa agataaccta aggatttgtt taccagaaat     240

acctacaaaa aagtttgcan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc     540

caccctgcca aaaagtttgc catggtccgg caggcaaagt tgcaaccgga gccgttcctg     600

ggtgaaaagc ttggcggtaa tccttgtcct atccttgttc ccttgtgtgg acatttgttt     660

tccccgctcc ccaatctccc ccataccctc ccacaaaaaa aaaccaggac aac            713
```

<210> 40
<211> 338
<212> DNA
<213> Homo sapien

<400> 40

```
ctgatttaaa gtcatagaat ttactgaaat acctacacag ctctgaatcc aacatttttg      60

tcatggttat tagaagaaac caaaacaact gactgaaaat gaaatgttca gtcagacagt     120

gtttgtccac atctttttt ttttgaagtt ttgaatcatc cattcacaga aacacttgt      180

ttatgggtat aatgcaaaac ttttgaaaca aaaaaaccta ctaaaaatgc tttcgctaaa     240

gtgattggct tttcattcat gctttgaaat aaaattatct agaaaggttg gagaagggtt     300

tgccgaacag ccatcttcct gatgtgcctt agattaga                           338
```

<210> 41
<211> 805
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (241)..(520)
<223> a, c, g or t

<400> 41

```
aatgctgctc gagcgcgcgc agttatgatg gatgtggtcg cggccgaggt ctcagtttcc      60
```

```
ctatttgtaa aatggaaata atggtagctg cctcaaacct cattacgaat tcaatgagtt        120

aaacttgaaa agacttatta cagtagctgg cacataaaga cttgatagta gtttatatgg        180

atgctatctc atattagcat atatggaatt aatagtgtat cactatactt tttttctttt        240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ttactatgct atcaattcca        540

tatatggaac ggtgtcttcc ctttcagagc tctttaaagc tctgcagaag atttacatgt        600

gtttatagag ctaagagaaa tcgggccatg gaaatgtggg tgtgtaacta acaaatttaa        660

cctcttcatg ttatattaat catgcataat tctatcttca tcctctgaaa gtggcctaga        720

gcaaccatca cagtaggaag cttgggtatc atggccatag ctggtcctgg tgtgaattgt        780

ttcgtcaatc caaaaaaaaa aaaag                                              805


<210>   42
<211>   300
<212>   DNA
<213>   Homo sapien

<400>   42
gaatgtatga tcactatagg gccatgggtt atctagatgc tgctcgagcg cgcgcagtgt         60

gatggatcgt ggtcgcggcg aggtacccct tgagcctggg caaggtgcat gacacacact        120

tggtcactgg aggaaatgat gagtagagag tgacaagcag aggaggggag ctttgggcct        180

gagtcctctg gggcacaaga gtggttgagg cttggcactt gccacctaga tttcagacaa        240

tgtgtcagga atcctggatg cccagaaaga aacctgctca gggtctggag ccccaacata        300


<210>   43
<211>   561
<212>   DNA
<213>   Homo sapien

<400>   43
ggactgagaa ttcctgtggt ctcctgagat cagtttcttt ccaccagatt gtaaacaagc         60

tgtggaaagt tttagttctt agcgactcca cgacccacac tagtcaggca gaagcccca        120

tgtacaaggt accccttgag ccttggcaag gtgcatgaca cacacttggt cactggagga        180

aatgatgagt agagagtgac aagcagagga ggggagcttt gggcctgagt cctctggggc        240
```

acaagagtgg ttgaggcttg gcacttgcca cctagatttc agacaatgtg tcaggaatcc   300

tggatgccca gaaagaaacc tgctcagggt ctggagcccc aacataaagc ttttatttag   360

gcaatgttga gcactaatat gtggttggag ctctgcaggg ggtctccatg ggtgcactgt   420

gtagcaaagc tgtgggagaa aggccttacc cctcaaaatt ccagaattat aaatctatca   480

gccgcttgca acttcagcct ggaaaagcca tgggcattaa actccaaact gtgagagcag   540

ccatgtggct gcaccctcaa g   561

<210> 44
<211> 530
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (102)..(182)
<223> a, c, g or t

<400> 44
gttttaaaaa gaggagctcc cctgcatgag atctcacttt ttgcctgcta ccatttatgt   60

aagatgtgac ttgctccttc ttgccttcca tcatgactgt gnnnnnnnnn nnnnnnnnnn   120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   180

nngcccgccg cgggcgtctc cacccgcctc tccgccgccg ccccacccccc gccgccccgc   240

gcgccacgag cagatcggag cagcaggccg cgaggagcag gcgagcggcc gccagtaggc   300

gcgacgcgtg ccgcggagac gacgcccggg gcgtgcacgc cgctgaggcc gaggacagcg   360

atgcgccgcg cgaggcgcgg agcgaggagg agcggcgtgg accgccccag cggccgagga   420

cgggcgagcg gcgcggggag gcccgaaggc gaggaggagg tgcgggacgg ggggacgaga   480

agaggagaag agaggggaaa gggagggggg ggagcggaga agagggaggc   530

<210> 45
<211> 709
<212> DNA
<213> Homo sapien

<400> 45
acaaaatagt aatgatagcc atggaagttt taccttattc tgtgagaagt gttcttaaac   60

ttattaagtg tctaaactaa ggtttagtgc ttttttaaag gaaagttgtc ccaggattca   120

tcctaaagaa agcaaaagtt aattcaactg atccaccaat ggaattagat gggtagagtt   180

gggttcttga gttttaccac cacttagttc ccgctgaatt ttgtaacttc ctgtgtttgc   240

atcctctgtt cctattctgc ccttgctctg tgtcatctca gtcatttgac ttagaaagtg   300

```
cccttcaaaa ggaccctgtt cactgctgca cttttcaatg aattaaaatt tatttctgtt    360

ctagctggga acacaaacaa caactcaact acaaaatcac gctctgtggg cagtatccct    420

tgcgccctta gcctttcccc cgggtgtcac tttgtcttcg cccccccatt cccccccact    480

ctcccacact ctccctcctc ccatcacttc cctccctctc tcccgctctc gctgccggcc    540

cgtcagcgcg cgtcgcgctc gcgccgtgcg gctcgcctcg ccgtctctcc ctcctctccg    600

ccgcgtcccc gccgccgcgc gtctgcccgt ccctcgtcct ccgctcccct cctccgcccg    660

ccgcctcccc ccgcccgtct gccactcgct ccctagtgcg cgcgcgccc                709
```

```
<210>   46
<211>   1808
<212>   DNA
<213>   Homo sapien

<220>
<221>   misc_feature
<222>   (153)..(153)
<223>   a, c, g or t

<400>   46
tcataagagt gaaatagtca gctgctgacg gcacctcagc cacgccacty ttactcagtt     60

cagtgggtgt gcttgcgtgg taggatgtgg tgcagccctc tctacgctct tctattttttg    120

gtatatttyc tatttaacct tcaaatagct tcnaattctt tttttcttgg actggcttca    180

ttctgaattt gtgctaaaat aatctttcat aaagagacct cagtttatag cgtaacagac    240

tacacaatgc actgatgttt tcataatgtt taagggaccc actgcaagaa ggttgctgcc    300

tcctttttaat tgtattcatt tagattttga ttttccatgt taagaaggtg aggtccatgt    360

tggtgccctt cagagtagag aaccatgtaa acattaggaa tgaacagagg ccttaggaat    420

gaatagagag tttgccttat acaatttcct gttacaaagc tctccctctc atgcaaagta    480

gggaacacct tttgagcatc tttgaatttg acaaatggtg ctgttgcaaa cactttttttt    540

ttgagatgaa gtctcgcggt tgtcacccgg gctggagtgc agtggcgtga tctcggctca    600

ctgcaacttc cacctcctgg gttccagcag ttctcctgcc tcagcctccc aagtagctga    660

gattacaggc gcctgccacc ccacctggct gatttttgta attttagtag agacggggtt    720

tcaccatgtt ggccaggctg attaactcct gacctcaggt gatccacctt tctcggcctc    780

ccaaagtgct gggattacgg gtgtgagcca ccgtgcccgg cctgcaaaca cattttaatt    840

gacaacacta gggctgttgt acaaaatagt aatgatagcc atggaagttt taccttattc    900

tgtgagaagt gttcttaaac ttattaagtg tctaaactaa ggtttagtgc ttttttaaag    960
```

```
gaaagttgtc ccaggattca tcctaaagaa agcaaaagtt aattcaactg atccaccaat    1020

ggaattagat gggtagagtt gggttcttga gttttaccac cacttagttc ccactgaatt    1080

ttgtaacttc ctgtgtttgc atcctctgtt cctattctgc ccttgctctg tgtcatctca    1140

gtcatttgac ttagaaagtg cccttcaaaa ggaccctgtt cactgctgca cttttcaatg    1200

aattaaaatt tatttctgtt ctagtgggaa aaaaaaaaa aaaaaaaaa aaaaaaaaa    1260

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    1320

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa actgagaaga gggggtgccg    1380

tgcttgtcct tctccccacg ggcgggcgca gcgcgtgcac cacccccgtg gtgttaagtt    1440

aaaaggggggc agcgggcccg ctcaggcggg tgtatataag agagagagag aggggcggct    1500

tacacacaaa atagatctgg cggcagaagg aggcgaataa aaaagttgct ttcagaagtc    1560

ctcatgatac ttgggctgaa gaagacaaga acatcctttt cagaatgcgg atgtagagat    1620

aatatcaatc gaaggagcca caccaccccta agtagaaaat tagtcagggt cctcagtcca    1680

tattgagcag taaaaatatt caatgattca gaagtcgtta cggatctaca acagcaagca    1740

tgatgttact tcctgccgcg gaagactgag actttgctgc tcgagtatct ataagacaaa    1800

taatatcg                                                           1808
```

<210> 47
<211> 760
<212> DNA
<213> Homo sapien

<400> 47

```
aatgctgctc gagccgcgcg ttatgtgatg gatgccgccg ggcaggtact gggtcccgag      60

cgtggtgggt atttgccaca ctgggtggcc agctcagcag ccccccacct ctctttattc     120

tctccaaagc tggtctttct gactatcatt gtggtagggg gaggacagat gctaaaggtg     180

gaagctgacc tggagaaaga gacacacggg gtgactgtgg caaaggacag ctggaaaaga     240

aactctatca cttcttcatt ggcaaccaca aggcacccga ggccatggca ctcccagagg     300

ctgtgcgcag tagccaagcc tctcaacctc ttctggccct gcgtcctgca gcgaagtctc     360

tgctgtaaga cagtagactc cttcgatgag gtgctcaaaa atgctacccg gggtggtggt     420

gtctggcttg cagtctggcc cagttcagag aaagttgcag agatcagggg ccaaggatgt     480

catagcccca ggttgtcctc agggtcccaa tcctagggca gggtgtgcat ggaagcaaga     540

actatggaaa cctagctcca gtctgcaggc tctgagcccc tagttcctca ctccagcggg     600

gctccctcac tgcacagaac ccaccccttc tgtgtgggca ctgctgacca cacagatgac     660
```

```
ccagacccaa agagcctggc agaagctctg tgcgttggag ctgggctccg tcctccggtc    720

tggttcaggg ggatcaggaa ggctcttttc acctgtggct    760


<210>   48
<211>   4940
<212>   DNA
<213>   Homo sapien

<400>   48
tgaagttcag tagagccggc cgctgcaggc cagaaggtgg gagccagcgg gggcatcgcc     60

gcccgcgccc ctctaagtgc cgggccgcaa gctccaccgc agccgcctgc aagcagcggc    120

gcctcggccc tcgacctgcg cgcaaagcct gtgctggagc cgtcctcccg cggcggggac    180

cgggaccggg gacccaagcc aatcgaaagc tccaaccatg gccatggggc tcttccgcgt    240

gtgtctggtg gtggtgacgg ccatcatcaa ccacccgctg ctgttcccgc gggagaacgc    300

cacagtcccc gagaacgagg aggagatcat ccgcaagatg caggcgcacc aggagaagct    360

gcagctggag cagttgcgcc tggaggagga ggtggctcgg ctggcggccg aaaaggaggc    420

actggagcag gtggcggagg agggcaggca gcagaacgag acacgcgtgg cctgggacct    480

ctggagcacc ctctgcatga tcctcttcct gatgatcgag gtgtggcggc aggaccacca    540

ggaggggccc tcacctgagt gcctgggcgg tgaggaggat gagctgcctg ggctgggggg    600

cgccccccttg cagggcctca ccctgcccaa caaggccacg cttggccact tttatgagcg    660

ctgcatccgg ggggccacgg ccgatgcagc ccgtacccgg gagttcctgg aaggcttcgt    720

ggatgacttg ctggaagccc tgaggagcct ctgcaaccgg acaccgaca tggaggtgga    780

ggacttcatt ggcgtggaca gcatgtacga gaactggcag gtggacaggc cactgctgtg    840

ccaccttttc gtgcccttca caccccccga gccctaccgc ttccacccag agctctggtg    900

ctccggccgc tcagtgcccc tggatcgcca gggctacggc cagattaagg tggtccgcgc    960

cgatggggac acattgagct gcatctgcgg caagaccaag ctcggggaag acatgctgtg   1020

tctcctgcac ggcaggaaca gcatggcgcc tccctgcggc gacatggaga acctgctgtg   1080

tgccacagat tccctgtacc tggacacgat gcaggtcatg aagtggttcc agacggccct   1140

caccagagcc tggaagggca tcgcccacaa gtacgagttc gacctggcct ttggccagct   1200

ggacagcccg gggtccctga agatcaagtt ccgttcaggg aagttcatgc ccttcaacct   1260

gattcctgtg atccagtgtg atgactcgga cctgtacttt gtctcccacc ttcccaggga   1320

gccctctgag ggcacccccag cctccagcac agactggctc ctgtcctttg ctgtctatga   1380

gcgacacttc ctcaggacga cactaaaggc actgcccgag ggcgcctgcc acctcagctg   1440
```

```
cctgcagata gcatccttcc tgctctccaa gcagagccgc ctgaccggtc ccagcgggct   1500

cagcagctac cacctgaaga cggccctact gcacctccta ctcctccggc aggccgccga   1560

ctggaaggcg gggcagctgg acgctcgtct gcacgagttg ctgtgcttcc tggagaagag   1620

cttgctccag aagaagctcc accacttctt catcggcaac cgcaaggtgc ctgaggccat   1680

gggactccct gaggccgtgc tcagggccga gcccctcaac ctcttccggc ccttcgtcct   1740

gcagcgaagc ctttaccgta agacactgga ctccttctat gagatgctca gaatgcccc   1800

agcgctcatt agcgagtatt ccctacatgt cccctcagac cagcctaccc caaaaagctg   1860

acgtcttttα cagaatgtgg gatcctcgag ctaagatgag ggcatccctc acgttcacac   1920

ccctggtggc atctgccagc cctgttctgg ggacaaggcg ggctttcgtg ggagccatgc   1980

tcagcctgcc aggaagccaa gccctacagt gcagaggaaa cagaatttca cgggaagct   2040

ggtttgcttc ataccattgg gatctgctgg taaagctgtt atttgggttt agggactgat   2100

cccttgcagt ttacttctgg atcaccatga atggccaaga tggtggcaga acacgctgtg   2160

gaccctgagt tagagacaat gcaaatgttg gattgggtgt aattcttttt gaatcccaga   2220

tccagtctgt acttgaatat gagcagagga tctacaagaa tgctgacagg gaaccgtgtt   2280

aagacccagc acccctattc ccaggagctt ctggcctgac catctgcagc caaagcacta   2340

acagggacag atatgggaat gtccaccttt gatccgcatc ctgcacaata gtggtcccac   2400

catggctgcc actttttat actatttgga gaaaagacct tgtataaatt cgaggcccga   2460

gtgactaacg tctctgtcac acggaaatgg gtacttggtg catagagaa acacaattag   2520

ccactttttc agctacactt ctcactcagc tgcaccctac acttctcact caggtgcacc   2580

cccttctgct gtcctttccc caacgtactg ggtcccgagc gtggtgggta tttgccacac   2640

tgggtgccag ctcagcagcc ccccacctct ctttattctc tccaaagctg gtctttctga   2700

ctatcattgt ggtaggggga ggacagatgc taaaggtgga agctgacctg agaaagaga   2760

cacacggggt gactgtggca aaggacagct ggaaaagaaa ctctatcact tcttcattgg   2820

caaccacaag gcacctgagg ccatggcact cccagaggct gtgcgcagag ccaagcctct   2880

caacctcttc tggccctgcg tcctgcagcg aagtctctgc tgtaagacag tagactcctt   2940

cgatgaggtg ctcaaaaatg ctacccgggg tggtggtgtc tggcttgcag tctggcccag   3000

ttcagagaaa gttgcagaga tcaggggcca aggatgtcat agccccaggt tgtcctcagg   3060

gtcccaatcc tagggcaggg tgtgcatgga agcaagaact atggaaacct agctccagtc   3120

tgcaggctct gagcccctag ttcctcactc cagcggggct ccctcactgc acagaaccca   3180
```

```
cccccttctgt gtgggcactg ctgaccacac agatgaccca gacccaaaga gcctggcaga   3240

agctctgtgg ttggagctgg gctccgtctc caggtctggt tcaggggat caggaaggct    3300

cttttccacc tgtggcttca ctggcccttt gagatttcct atctcaccgt tacttcagtt    3360

acccttgcag ggggccaggg agtcaagaat ataccgtgtt cctccagggt ttaagccggc    3420

catgccttcc cgagagcata accaacttga cagggtgcc cagttacccc acaaactgaa      3480

ggaaggagat ccttccccca tccccaggag tgctctcaac cagcctcaga aagcttgaga    3540

agatggaccc tttgcccacc agggttaatt cctggtgggg cagctcggct gtgatcaggg    3600

caaccaaacc tataggaagc cttccagtgt gagctggaat tagactgaac atgtgcttgg    3660

gcctgcctct ccctagacgc agttgcgggg cactccaggg aatgaaccag ctcaagtgtg    3720

tccctaacag cagcctggag ctaccccaa tccctcacag cctgaccctc ctcattccat      3780

cagatgcatt tgtagaatcg gggcaaattt ccttatttat ttatggccca tgcctttccc    3840

cctcttcatc ctgatcccgt tttgctttga agagacccca gtaaccaaaa aacagcctcc    3900

agaagccaaa accatgcctg gatctcccat agcttctcct ttgcttccag gagaaagttc    3960

actgaaaaaa aaatatcttc tggcttcttg tgtgtacaga gacaacagaa ctcggtgggg    4020

aaacgggaat cttttctgca ccaaagctgc ttctaaagca gaaagcagtg gggctcttgg    4080

tgtttcatgc tgccttattt atattaaagg aagaattaaa tcttgcaagg agtaaaaatg    4140

gtcactgttt ggttttaaa cttcaggaaa tctgtgaggc tcccagggca gagttgggga     4200

cagggggtg gatttcctat tgacaaagca gaagctttca ctccctttt attcttacac      4260

tttcaggaga ctttaaaaaa taacaaaaca gaacatttct accctgtctt tgaggcaact    4320

tgtgtgctgc ccgcagggct ccagaaaggg cctttgaaag ctggctgtag ggtggattcc    4380

agcctaagac cttatttcac agagctaatg tcagcgagaa atataggagc tggaactaac    4440

aggaagcttt tgggtttttaa agaaagagat tgtatttttaa atagaggatt ttgagtcctc   4500

tagggcactt tggcctttcc actaaggaca accctgccct cttttccccag agtctctttc   4560

ccaaggatgc ttgactttcc ccagcaactg ctcacttgct ttgcaaaata acaagggtga    4620

aatgaataga gttggcccct aggccaagag gctggttatg ttggggaagg gccttatatc    4680

ctcaaaagct ctagcccctc tgcatgcctg gctgaagcac agccccgcgt tgagaacctg    4740

ggggtggagc tctggttcat catcaagggt gtcatccgaa tcacccagac aacctggtcc    4800

attgccccga ccccgccttg aacctacatg gtgctcagaa tccagtctgg agtggtcagg    4860

ctaggctcga tttttaaaga tttcccccaa gtgtctgatg taccccctagc tgaggaagag   4920

ctcagcttta tggtaccgac                                                4940
```

<210> 49
<211> 782
<212> DNA
<213> Homo sapien

<400> 49
accattctga acgatgttaa agcaagtgtg gtttatttat ggcatgaacc atgtaacttg   60

aaatatgaac ttacaaggag gggcactcat taggtaacaa gttcttacac caaacttcct   120

tgatgaaata agccaaaata atcctaaaat tcattaaaaa gaacttgata aaagactcaa   180

ataaatgtta gaaagagccc ataattttag gactcctata aaattcttcc tgtttgttaa   240

tgctattaaa actcagattc aagggaaata ccagcttcca cttgagtcac tttgaaatag   300

ttaattcaac agcaccatgt tagaaatata ttggcagcca agactctgaa ctctgcagaa   360

acatttgttt cacccagact tcaaactcta gccctgacta tgatgcccct gtgtgcattt   420

acaataaaga ctccaacgga gggagcctgt tggtgttaaa ttgtttacat ttctttatac   480

aaataatgtg ctttcagtgc cttagttaca gctccctttc tgtttcttgt tccaaaggga   540

ttctgtagta tgtaggtgtg ttttcttagg taaagtctct tattgctact gaaagggaaa   600

tggtctctaa acactggtca ctgtagcagg taaacactac tctaacgtgg gagaaatgag   660

cctccatgct gaggtagggg gtgccctaaa gcctgttatt tatgctgtga aaacgaaatg   720

ggtttgctac ctgataagct gggggatcca tggcctagct gttcctgggt gaatgtttcg   780

ca   782

<210> 50
<211> 2675
<212> DNA
<213> Homo sapien

<400> 50
ggtttatcct aaattactca accccttgta gccttgacaa attttacctt aaaaccaaaa   60

tgaaacacaa aaattaatcc ttaataatga tagcaagtga tctttctttt tagtttttagc   120

cttccttttt caatagtaat atttaaaccc actcttgacc aattgtttgc ccaaatattc   180

ttgtcatttg gagtcagtgg aaaatccagc acaccaagca ccagtcttct tctgaggcaa   240

aagaaaagtg ttgtcatttt cactctgttg gagctgcaca cttttttttct ttttcttttt   300

ttttttttgt cgtgtaagaa ggatgctggt cagagctgca gaaaatatga ggcaattaaa   360

agtctttagc tgttagcaaa cctgttagtt ttacttctgc attgaaccag cctcagaagc   420

tacttactgc tttatgtact ctttgggcat taatgccttc tctgtaatta tatctcgttt   480

```
ttgcttgaca gtgacctagc cagtaattgc atcgtgcatt gccatgaaag gtaaacacat    540

tgtgaactga acttaccaag cagattctgt aagaaagcgc tggttgaggc tgaacactgt    600

tgacacatca tttttattgg aagagtatta actggtgcct cttctgaaac acaccaaccc    660

atattcctct gctcccccaa agctgtttct gatcctgctg ggagcaacta actagttatt    720

atgcacatct gctccagacc cagctctttta acttcacggt tttacagctt gttttttctt    780

tttcttttct tttctttttt ttttttaaaa aagcacctttt ttttgttgtt tcccccttaat   840

aaaagaggtt tctaatttat gtttctctaa gatttccttt ggttgtattt agaaacacaa    900

atagtttttat aatcaggatt gcatttgtgc tgggtaaaag aggagagctg tgctttctac   960

cccaaagttg ttggtaatgg agccggtctg cccttcctac aaactcaaga ggctcattgt   1020

tcaaggtgta acaacattta attgcatgtc ctctaacgct ttgaaacctt tagagggaag   1080

atcctcattt tttacaattt tgttcctttt catcatagaa aacatgttta agataaaata   1140

caaactttac ctaccccaaa ttcataaagt acatttagtg ctgtatagca ctaaaactta   1200

gagatacaga cactgtactt acttttttaag aattagagac agtaactcca aaaataattg   1260

tcctttttttc tttctttttt ttttttttaca ataaggctct tgaaaattgt cattacttgt   1320

gttttcctat acattcatct gtgtgaaagc cttttttcttc tttgatttaa aaaaattata   1380

cagttaatgg tttagaactt agaactactt agaattaatg ctaaagtgtc aggaagaaat   1440

taatttagct tcaataattg tgactggcct caggaattct cccttccaca cctgcccacc   1500

tcacctcacc tcacctcacc gcaccgcacc gcaccgcacc gcaccgcacc agagccagag   1560

cagctgcttg tctgcagcag gacacggttc ctacatacgt ttcagttctt tcatggtaag   1620

ctcaatggac tttgaattgt ttacagtgct gtatgtccaa ttgttaaatg taccattctg   1680

aacgatgtta aagcaagtgt ggtttatttta tggcatgaac catgtaactt gaaatatgaa   1740

cttacaagga ggggcactca ttaggtaaca agttcttaca ccaaacttcc ttgatgaaat   1800

aagccaaaat aatcctaaaa ttcattagaa gaacttgata aaagactcaa ataaatgtta   1860

gaaagagccc gtaattttag gactcctata aaattcttcc ttgtttgtta atgctattaa   1920

aactcagatt caagggaaat accagcttcc acttgagtca ctttgaaata gttaattcaa   1980

cagcaccatg ttagaaatat attggcagcc aagactctga actctgcaga aacatttgtt   2040

tcacccagac ttcaaactct agccctgact atgatgcccc tgtgtgcatt tacaataaag   2100

actccaacgg agggagcctg ttggtgttaa attgtttaca tttctttata caaataatgt   2160

gctttcagtg ccttagttac agctcccttt ctgtttcttg ttccaaggat tctgtagtat   2220

gtagtgtgtt tcttaggtaa agtctctttt tgctactgaa agggaaatgg tctctaaaca   2280
```

```
ctggtcactg tagcaggtaa acactactct aacgtggaga aatgagcttc atgctgaggt      2340

agtggttgcc ttagagctgt tatttatgct gtagaaaacg aaaatggttt tgctacctga      2400

taagcttcag attagatata gccctaaagt tatcctgtac ctgcattaaa ttttcatttt      2460

agaagagaat cttggttttg gtaattcatt tttttttaag atcattatgt gcaaaacacc      2520

aagttttaaa aataactcac agaatggcct tagttttcaa tgtctgatgg tatatttgtg      2580

agttgtgtta tctgtaatat acatcccaga ataaaggagt gaattaaata gtttaaaaaa      2640

aaaaaaaaaa aaaaagatc tttaattaag cggtc                                  2675
```

```
<210>  51
<211>  168
<212>  DNA
<213>  Homo sapien

<400>  51
acaacacaac ctgttaggta gcaggctggg tattacctga gtaaaaagtc cctattcttt        60

ccatttctcc atgctatttta aaagcatgtg gtgatccttc aataaattaa agatataaca       120

aattatttga tgccattagg cggcctggat caccaattct aagtcttt                     168
```

```
<210>  52
<211>  1139
<212>  DNA
<213>  Homo sapien

<220>
<221>  misc_feature
<222>  (291)..(576)
<223>  a, c, g or t

<400>  52
caaaattgga ttcttcaaaa cgccaggttg gcctttcttg actccaaaag aggtgactct        60

tgtagcattc ttacaggcct aacatagcac ttactttatg ttgcaatgct gtgtgcaatg       120

ctgtgttttt ttactcacta gctctgagca aaacattatt tattcttggt aattgtaaca       180

cttggtagtg aagacatatt ttttggccat ataatggatt atactttgta tttgaatcca       240

tgtgaatcag tagcatattg gtcttcattg ttttcctcc ttctccgacg nnnnnnnnnn       300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn       360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn       420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn       480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn       540
```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntaac catattttt ccaattatta   600

aaaaatcttt tttcccccta aggaatgtgt ttctaaggtc accatgtttt tagtgcttca   660

gtttgacttg tctacatcta aagttaactc tttaaggctt acatttatga ttataattct   720

ttccatcgag ggatttagtc tccattattg tcatgtttct tgattttttt cattatactt   780

agttcttctt ttgtctaggt tttatatata ccttaattaa ttctttcttg gctgttttat   840

atctatgttg ctgtcagcat gggaatctct attattagaa agctattaac ttttaaaata   900

tgtatctttg gtgatttctt tgtcctaaca gtttagatgg cctgttgctc ttctaaatct   960

taaatcatag gtattctatt ttggttgttg tgtttcatta cactgtcata gttttttgata   1020

ttttcattac tattgaggta ctgtggttta ccaatgttct gttggtacga atactttcca   1080

tctgttgggg agctcaaact gggaaccagc acgttcgtga tgttcgcacc ccccaccccc   1139

<210> 53
<211> 681
<212> DNA
<213> Homo sapien

<400> 53
ggtacgggga gaacatatca aaaggggaa ggatggattc ccttgatgcc caggattaca   60

gtggcaccta aagcacattt ttttttttct gagccaacca gctaaaggat cactgcagct   120

aaatacagat agagaagcaa caaagccagg caaatacccca tcagagacag tgacaagagc   180

agctggggggc acggggggagg cggaaggaag agaaagaagg ggaggagcct ccagagtccc   240

agccccaacc ccctctgcca tgggctaccc ttgctcccca aaaatcccgt tggggttgaa   300

gtgaggagga ctgcaggctg gggtgaaaat acacaaggac agcccaacaa aatacaacaa   360

ggactagcat cagtctcccc cttactccga cccccaagaa aaatacccctt attggtgact   420

agtatttatg aaaatctgta aggagactat tctatgtagt gggctctaat cccatataca   480

cagcagctgc ctgtgtgggg aacctttca aatcagtgat tgcgggaaca aacagtattt   540

tcagcttctt acggtgccca tgcaggcttt taccaagacc ttggttaagt cccagtcaca   600

tttactttct gtcttcatct agaaaagggt gaggaaagag ggagggacaa ggtgctccag   660

gtgctagtaa gctgggtatc c   681

<210> 54
<211> 3191
<212> DNA
<213> Homo sapien

<400> 54
gtgctgccga gtagtcccgg aagcgaagca gcgatggcgg agagtccgac tgaggaggcg   60

```
gcaacggcgg gcgccggggc ggcgggcccc ggggcgagca gcgttgctgg tgttgttggc    120

gttagcggca gcggcggcgg gttcgggccg cctttcctgc cggatgtgtg ggcggcggcg    180

gcggcagcgg gctcccgccc tcagccgctg cccacggggc cgcgctgctt agccactggg    240

accccacgct cagctccgac tgggacggcg agcgcaccgc gccgcagtgt ctactccgga    300

tcaagcggga tatcatgtcc atttataagg agcctcctcc aggaatgttc gttgtacctg    360

atactgttga catgactaag attcatgcat tgatcacagg cccatttgac actccttatg    420

aaggggttt cttcctgttc gtgtttcggt gtccgcccga ctatcccatc cacccacctc    480

gggtcaaact gatgacaacg ggcaataaca cagtgaggtt taaccccaac ttctaccgca    540

atgggaaagt ctgcttgagt attctaggta catggactgg acctgcctgg agcccagccc    600

agagcatctc ctcagtgctc atctctatcc agtccctgat gactgagaac ccctatcaca    660

atgagcccgg ctttgaacag gagagacatc caggagacag caaaaactat aatgaatgta    720

tccggcacga gaccatcaga gttgcagtct gtgacatgat ggaaggaaag tgtccctgtc    780

ctgaacccct acgaggggtg atggagaagt cctttctgga gtattacgac ttctacgagg    840

tggcctgcaa agatcgcctg caccttcaag gccaaactat gcaggaccct tttggagaga    900

agcggggcca ctttgactac cagtccctct tgatgcgcct gggactgata cgtcagaaag    960

tgctggagag gctccataat gagaatgcag aaatggactc tgatagcagt tcatctggga   1020

cagagacaga ccttcatggg agcctgaggg tttagaccct gctcccatct cccctttcccc   1080

cactcaagag tcccagcaga atcccttccc cccaccccag ggatggagag gcactgtgta   1140

tctccctcca gactcgaagt catcctgcaa gatggcaaga accaagcaag ctccgatccc   1200

agggtgtggg agtgggggcc tgttcccggt ctgacctcct tggcactgga gcatctgggg   1260

cttcgttcat ccattcatcc cgtatcaggg ggccaaggta cctttacagg agcacctaga   1320

gcgagggcct ttggcaaaaa caaaacaacc aacacacctc tccacagggc cagctcctta   1380

gggataagtg gaagatggaa attgcaattc caagagggag tgtgcccaaa tgatttatgg   1440

ggatacctgg aagggagctt ggggtggggg ctgtctgtga cacttaagca gtctgggtgg   1500

ttgtctattt gtctgtcttc agtcttgaag cagggcttcc caatgccctt ttcctccctg   1560

ccttccttcc cccattattt cccacaggcc agcataattt tgttttttcct aatttatagt   1620

cactgttcta gacagaccaa agagaaggaa cagtggtgga gtctaggctg ctgatcagta   1680

agctttacct agcacctgag caccttttctc ccctccctc tttcctcacc cttttctaga   1740

tgtaagacag aaagtaaatg tgactgggac ttaaccaagg tcttggtaaa gcctgcatgg   1800
```

```
caccgtaaga agctgaaaat actgtttgtt cccgcaatca ctgatttgaa aagttcccaa    1860

cacaggcagc tgctgtgtat atgggattag agccactaca tagaatagtc tcttacagat    1920

tttcataaat actagtcaca ataagggtat ttttcttggg ggtggagtaa gggggagact    1980

gatgctagtc cttgttgtat tttgttgggc tgtccttgtg tattttcacc ccagcctgta    2040

gtcctcctca cttcaacccc agggatttgt ggggagcaag ggtagccaat ggcagagggg    2100

gttggggctg ggactctgga ggctcctccc cttctttctc ttccttctgc ctccccgtg     2160

cccccagctg ctcttgtcac tgtctctgat gggtatttgc ctggctttgt tgcttctcta    2220

tctgtattta gctgcagtga tcctttagct ggttggctca gaaaaaaaaa aatgtgcttt    2280

aggtgccctg taatcctggg catcaaggga atccatcctt cccctttttg atatgttctc    2340

cccgtacttc cagatttatt gttatggctc ccagtgggta ttggcgattc ttgtgatgca    2400

gggcctcagt cagtgtccag ccatgcataa gggagaggat agtgtgtacc tgccctgccc    2460

tctgctatga aggtctctgc cttgtggatc atgggactcc ccttggagga tctgtgcaaa    2520

ggggggctgg gcacaaagga gaatgtccta tttgggaggg caggaagcaa aggaactgga    2580

cagggattgg tgggcttggg aacggaagt ttatcttgga tacccttgaa gaggctgggt      2640

ctcttcacat gaagatcgaa aagggaccct gcttccaatt tccctcttcc attcctcgag    2700

ctactccagg gctcagaaga atgctcttgg tctgtgggtc cagtgttgtc tgtcatccat    2760

ttaagtgttc ccactttcaa gtgacaatcc tctccttggc cctgccatag ggcagagcat    2820

gtctggcata gcagcctgac ttttatgccc taatcttgag ttgaggaaat atatgcacag    2880

gagtcaaaga gatgtcttta tatctgactg ttataaatga agttttgcgt tctgttgggt    2940

tccctttttgg ctgccatcaa cgtcgtcttg cacgccagac gtgctgggga ttggagggct    3000

tggttcagca cgcattggtc ctttgtcacc ccctcctagg ccgttgtggg gcacgacgcc    3060

cgattgttgg accccttctc tgtcgcggcg gcgtggcgca cgccttctcg agggccacgc    3120

cccgccttgg gcccgcccct ggggctcagg aggcctcctg gtgcgcgtct ccgggcgcct    3180

cccgcaccgg t                                                         3191
```

<210> 55
<211> 385
<212> DNA
<213> Homo sapien

<400> 55
```
actgctaacc cctgccaggc ccagctgcca cacccttcct gggagaagca tggcctacag     60

aatgaagagg gggaccagga accctgtgg gagaggctta gacctgaagc agtgcccact      120
```

ctggctcctc ctgccttggc tgactgggtt cctggaccat gtgcatttca ctgggccatg   180

ggatctacat ctccttgcat ccccagctgg tctgatccct gccagggccc cttccttcct   240

gctcatggtc ttcaggtggc ctgatcatgg aaagtaagga gttaggcatt accttctggg   300

agtgaaccct gactccatcc ccctattgcc accctaacca atcatgcaaa cttctccctc   360

cctggggtaa ttcaacagtt aaaag   385

<210>   56
<211>   1977
<212>   DNA
<213>   Homo sapien

<400>   56
ttcacccggc cctcgcctgt caccttcaca gagaaggggc tgcctgcagg aagaaagcac   60

ggcccacgcc cctccagtca catactgcct gtgggccctg gtgtagtgag gggggctgcc   120

gaggcactgc tgcactcacc aggcacgtgc tggtcggcaa acttgatgtt gatgatgtag   180

ttgcctggct ctgtggggca gtaggtcacc tggcgggaca ggtgcctggc tgctacaaac   240

catgcaatga gccatgcccc gccctggaca cccccgccca gcatctgggc ctccacgctt   300

gggaccgtgg gagcggccaa cagagctatg tctggagaca tatgataaac cacctcagcc   360

cccaccaagc cgccgcaccc gtagaccaga ccccaaggac cctggccacc atgggccaga   420

gagcattacc ttcatctctg gctctgctga ccggccctt gagtccccca cctgctgcct   480

gctctggcga ccctgggtgt gggagtggtg ccgggctgcc ttctgcttcc gcccgctgcc   540

gggattgcct ccagcgctgt ggaggcctgt gtgcggggat gcagcccctg cctgtctact   600

gaggactccc actgagggga ctgctgaagc caactggtgc caaggagcac aatggagtgc   660

cccccagccc tgatcgtgca cccccagac cggcgggatg gccaggcggg ctgcaagtca   720

accatgggca gcagcttcag ctaccccgat gttaagctca aaggcatccc tgtgtatccc   780

tacccgagag gccacctccc cagcccctga tgcggactcc tgctgcaagg agccactggc   840

cgatccccca cccatgcgag cacagcctgc ccagcacctt gccagtagt cctcgtggct   900

ccgaggagta ctattctttc catgagtcgg acctggacct gccggagatg ggcagtggct   960

ccatgtcgag ccgagaaatt gatgtgctca tcttcaagaa gctgacagag ctgttcagc   1020

gtacaccaga tcgatgagct ggccaagtgc acatcagaca ctgtgttcct ggagaagacc   1080

agtaagatct cggaccttat cagcagcatc acgcaggact accacctgga tgagcaggat   1140

gctgagggcc gcctggtacg cggcatcatt cgcattagta cccgaaagag ccgtgctcgc   1200

ccacagacct cggagggtcg ttcaactcgg gctgctgccc caaccgctgc tgcccctgac   1260

```
agtggccatg agaccatggt gggctcaggt ctcagccagg atgagctgac agtgcagatc    1320

tcccaggaga cgactgcaga tgccatcgcc cggaagctga ggccttatgg agctccaggg    1380

tacccagcaa gccatgactc atccttccag ggcaccgaca cagactcgtc gggggcaccc    1440

ttgctccagg tgtactgcta acccctgcca ggcccagctg ccacaccctt tctgggagaa    1500

gcatggccta cagaatgaag aggggggacca ggaacccctg tgggagaggc ttagacctga    1560

agcagtgccc actctggctc ctcctgcctt ggctgactgg gttcctggac catgtgcatt    1620

tcactgggcc atgggatcta catctccttg catccccagc tggtctgatc cctgccaggg    1680

ccccttcctt cctgctcatg gtcttcaggt ggcctgatca tggaaagtaa ggagttaggc    1740

attaccttct gggagtgaac cctgactcca tccccctatt gccaccctaa ccaatcatgc    1800

aaacttctcc ctccctgggg taattcaaca gttaaaagaa gcttatctta aatgtattgt    1860

attggggggt gggcagggcc cactctatgt tatgttaagg agttggttct ggttcttggc    1920

tgatgttctg tatcttaaca tgaccacagt ttgtaagtac ctcgctcgcg accacgc      1977
```

<210> 57
<211> 629
<212> DNA
<213> Homo sapien

<400> 57
```
tgggtgatct agtctgtcga gcgcgcatgt gatggatagc gtggtcgcgg gcccggaggt     60

tacatggtgg cctatacaaa agcactccat gtttctgcct gaataacgta cgttgatcgc    120

ttggttgcct gagcaaatgt ataagggagc tgcttggagg ggaaaggaac acaataaaac    180

gcctctggag gtatttcaaa gagtagtttc tcaaatctct ctgattcagg aagaggatga    240

cgagagggag agaacgtgga attacttaaa gtcatctaac tcattggtct tgttcaacaa    300

gaaagaattc tggtttgtgg ctgaatctga tttaacagct gccaatagct cattacttct    360

aagatgtata tctaattcaa aactagatgc tcccccctcc ctctttttc cctaaaagct     420

gggaacttgt aagtaaatgg cctagtgaaa tagacactgg ctattttaga aaaagggtca    480

gaaggtagac caggaactat gtatcaagaa gaagtaagtg aggctcaagc ccaggccacc    540

taggctgtgt ttattcagtc cacccaatcc aatgtcaaag ccccaagtgg gccagtgtta    600

cctttatctt cccatctttg tatttctga                                      629
```

<210> 58
<211> 3535
<212> DNA
<213> Homo sapien

<400> 58

```
gtgataggca gctttccttc ttttcaacag tgatacctac gaaaatcaaa ataaatgcaa     60

gctgaggttt tgtgctcact gaaagggctg tcaaccccag aaggccgaca caaaaaaaat    120

ggtatgtgaa gatgcaccgt cttttcaaat ggcctgggag agtcaaatgg cctgggagag    180

ggggcctgcc cttctctgct gtgtcctttc ggcttcccag ttgagctccc aagaccagga    240

cccactgggg catataaaat ctctgctgta tcctttcggc ttcccagttg agctcccaag    300

accaggaccc actggggcat ataaaaaagt caaaaatcaa aatcaaacaa caagttctga    360

gttacttagg aaacagactt cgcatttcaa tcagagaggc cacagagcaa ggtctaaact    420

tctggcttct agacaaattc ctgatagaac atttaaatgt gggaagtggc ttccccaggt    480

cccatcccct gtttagggat agagttgata tcatttttat aggtgccatg tatgcctctg    540

cctgaatttt tttaattgac ttttgagctt ttgagattgc acgagggaga acaaggcctt    600

tgctgttgtg gataggaaag acttaaccta aaattaaacc agcaagaaag cattagtaaa    660

aatctaacaa tatgaagggc tcttatgagt catttttttc aaaagatgaa aactccagaa    720

acgcacagga acgaaatacc tcccagaaac atgaagcaat catcgaagac tcactggtaa    780

tatttttaaa aagtatacag atcaaagcaa aaagaagcca tgtgtaacaa agagaaatgt    840

gcaaatattt tttaaggcag tattaagtgc aagaggagta acatgaaata aacattcttt    900

cacatggcta ctgggaatat aaatttcgct ccagaaaggc cgtagcagtt tgacgatagg    960

tggcaaaacc ttaagattgt gtactggggc ccagaatttt tatttctagg aatgtatcct   1020

gaggaaatta tccgagatcc ccacaaactg caatgtttag gaattgtcct tatagcattg   1080

catacacaag aaaaacagag aaaagcctga tccctgtcag tggaaaggg gttcaatgaa   1140

ttacggtgtg tctgcatgag gcttttatga cattaaaaat tgttgaacaa cggcctggca   1200

cagtggctca tgcctgtaat cccagaactt gggaggcca aggtgggcgg ataacttgag   1260

gtcaggagtt tgagactagc ctggccaata tggtgaaacc ccgtctctac taaaaataca   1320

aaaattagct gggcgtggtg gcaggcgcct gtagtcccag ctgctcggga ggctgaggca   1380

ggagaatcgc ttgaacccgg gaggcggagg ttccagtaag ccaagatcgt gccactgcac   1440

tccagcctgg gtgacaagag tgagactccg tctcaaaata aaaaaaaaa aaaaagtaa   1500

aacaaaaata aagtctatgc ccattaagac gtcttctaat tcagttgtga ttgtctgctc   1560

ctacttaaaa aaatatttaa gcttgatgtt taattattcc ctttcagcaa atttggatca   1620

gaaaattaaa gtatgtgaca agatcaggtc accttgaatt tccacacaat ctcaagacac   1680

tgaatagcaa aaaagtaaca ttacacagta atgattagga tatttcctta gactttgctg   1740
```

```
gatctttggt cttaaggtaa catgtaaaag tagtgaagcc tttcctttca tggccctgtg    1800

caatgtaacg gttttctgcc tcctcttcag ctggaagcgt tagtggtagt atgggcacag    1860

aatatatgta cactggcgat gctgaccatg cctcccaggt accctggctc tgggttcctt    1920

gacctaggga acaagattgg atgaggcaga tctttgagcc catgtgacta tagaatttgc    1980

tgatgatata attttacaat aacaatggat aggaatttta cctctctttt tattagttta    2040

atattattta atattatgta cataagtgtt cactcgccta attaaaaaca ttgagtaaac    2100

caagttttta tatagactac ccttgccata tgatgctctt tttctctaat aatatgcagt    2160

ttaaatcctg aggaatcaat gcccagcatt tcaccacatc tgaactctgt gtgggcattc    2220

ttcactcgcc tacaaggggt aaacaaggct accagaactt gaatttgact tatagggagc    2280

tacccaggaa ggggaaagcc cttgggactt tttccaaaac aatcttctat ttgaactgtt    2340

catcagccaa agtagtccac tgaggtgaca aagctttcag aaatacaaag atgggaagat    2400

aaaggtaaca ctggcccact tggggctttg acattggatt gggtggactg aataaacaca    2460

gcctaggtgg cctgggcttg agcctcactt acttctcctt gatacatagt tcctggtcta    2520

ccttctgacc ctttttctaa aatagccagt gtctatttca ctaggccatt tacttacaag    2580

ttcccagctt ttagggaaaa aagagggagg ggggagcatc tagttttgaa ttagatatac    2640

atcttagaag taatgagcta ttggcagctg ttaaatcaga ttcagccaca aaccagaatt    2700

ctttcttgtt gaacaagacc aatgagttag atgactttaa taattccact tttctctccc    2760

tctcttctcc tcttcctgaa atcagagaga tgagaaacta ctctttgaaa tacctccaga    2820

ggcgttttat tgtgttcctt tcccctccaa gcagctccct ttatacaatt ttgctcaggc    2880

aaccaaggac agagtatcgg cagaaacatg gagtgctttt gtataggcca cctgtacata    2940

aaagtgtaat tatttatttta attttcccat ttgtatcata ttaaagcttt gtacagtgtt    3000

ttaagttctg ttttaaaatt attttgtatt ttattttttat aacctagtaa taaaatattc    3060

attccgcatg caaaaaaaaa cacacacaca acccaaacaa ccaaaaacaa acagaaccaa    3120

aagatagaaa ccaaacacag caacagacag acacaagaga agacgaaaac aaccacacaa    3180

acagcacaca caaccgcagc ggagaaccaa caaagccaaa cgcaagacag cacaacaagg    3240

gacaaaacac acacgtagca caaagcagcc gcagaaccga acacacatct aaagacaggc    3300

gacaacaaca tagcaggccg tagcaccgac aaccactaaa ccataactat ccagcggaga    3360

tcagatcaca gaagccgaca cagaaagaaa agcatgtatg caacgcatga caccgcaggg    3420

cggataaaaa cactcgtagg cgggaccgcc gcagaacgat cgaaggctaa caaacaagct    3480

agtagatcac aagtacgtga ccacgccctc ttatctataa aggaggaaga gggag          3535
```

<210> 59
<211> 348
<212> DNA
<213> Homo sapien

<400> 59
cgaatgatgc tatatagggc catgggtgca ctgatgcatg gctcgagcgg ccgcagtgtg   60

atggatcgcg gcgaggtact tctgccatca ttttattcca ttccagcgct ctggcatgca   120

agataatcca tctctaaaat tcaagacttc caaattgaga tgaacgatta tgggcttggg   180

ttggggttta taaccaatcc gatcattgat catttgttcc cggctcttgg gatcactgct   240

aagcccaatg gctccttctc catcactgcc tcctacaact tccacatctt ccttctgttt   300

cttacgggtc tccaggtcct ttcgaatgtt ctcaaactct tcaatgtc   348

<210> 60
<211> 2497
<212> DNA
<213> Homo sapien

<400> 60
ttataccccta tgctcgacca cttggagtgt tcaacctcgt tcaccggggt tttaatggtg   60

aaaccacgct tgctcgtccg tgtttcttgg aacgcttgcc ctgtaccata cctatgcgcc   120

cgtggtctat acggaagggt ctaaaacttt tctacggcta atgcggccca caaagttttt   180

tctttgtgtg tttttgtttg gatgcctcac agtggtccaa aatatattta tttttaaaaa   240

cagaaaatca gatcagtttt atagagtcaa attttcaaga gacaaaccag agtttggatt   300

ccagcttaga gtgcaagtga agcatcagta atctcatgca gaagatttgt ctctgcagga   360

ggtacattct gcttgactgc aagcactcaa ttctctaaat ctggtttgta cttctgccat   420

catttattc cattccagcg ctctggcatg caagataatc catctctaaa attcaagact   480

tccaaattga gatgaacgat tattgggctt gggttggggt ttataaccaa tccgatcatt   540

gatcatttgt tcccggctct tgggatcact gctaagccca atggctcctt ctccatcact   600

gcctcctaca acttccacat cttccttctg tttcttacgg gtctccaggt cctttcgaat   660

gttctcaaac tcttcaatgt catcaagctt tagctctagg cgtgttggtt ccgtctcag   720

catactgaag tcaacactaa gggccaaacc cagtgaacta ttagcaattc acaggattat   780

cctccgcgtc caaacagatc ttaaatgtgt acgtcattca ttaaacaaac acttcttgtg   840

ttccagctac agagttaaaa ggtacagtca taatctcttt tcaagccggc ctagccctt   900

cccggaacct cggctccccc ccaacgaaac tactgctaag ccaactggac tacacttccc   960

```
agactgcttg gagcctctct ctccgcagaa cctcgtcttc cgcgagcttt tcctggaggt      1020

tctaggaggg atgcccctca atgccacgac gccatttcct actacgactt ccatcatgct      1080

ccgcgccgct ccggggggcgg tgacccctct tggcccacgt cttgtcagtg acgcacttcc      1140

tgcaaccaaa actaaagcac ccgacgactt agttgctccg gtcgtgaaga aaccacacat      1200

ctattatgga agtttggaag agaaggagag ggagcgtctg gccaaaggag agtctgggat      1260

tttggggaaa gacggactta aagcagggat cgaagctgga aatattaata taacctctgg      1320

agaagtgttt gaaattgaag agcatatcag cgagcgacag gcagaagtat tggctgagtt      1380

tgagagaagg aagcgagccc ggcagatcaa tgtttccaca gatgactcag aggtcaaagc      1440

ttgccttaga gccttggggg aacccatcac acttttggga gagggtcctg ctgaaagaag      1500

agaaaggtta agaaatatcc tctcagttgt cggtactgat gccttgaaaa agaccaaaaa      1560

ggatgatgag aagtctaaaa agtccaaaga agagtatcag caaacctggt atcatgaagg      1620

accaaatagc ttgaaggtgg caagactatg gattgctaat tattcgttgc ccagggcaat      1680

gaaacgcttg gaagaggccc gactccataa ggagattcct gagacaacaa ggacctccca      1740

gatgcaagag ctgcacaagt ctctccggtc tttgaataat ttttgcagtc agattgggga      1800

tgatcggcct atctcctact gtcactttag tcccaattcc aagatgctgg ccacagcttg      1860

ttgtgatgaa ccagtggcag atattgaagg ccatacagtg cgtgtggcgc gggtaatgtg      1920

gcatccttca ggacgtttcc tgggcaccac ctgctatgac cgttcatggc gcttatggga      1980

tttggaggct caagaggaga tcctgcatca ggaaggccat agcatgggtg tgtatgacat      2040

tgccttccat caagatggct ctttggctgg cactggggga ctggatgcat ttggtcgagt      2100

ttgggaccta cgcacaggac gttgtatcat gttcttagaa ggccacctga aagaaatcta      2160

tggaataaat ttctcccccca atggctatca cattgcaacc ggcagtggtg acaacacctg      2220

caaagtgtgg gacctccgac agcggcgttg cgtctacacc atccctgctc atcagaactt      2280

agtgactggt gtcaagtttg agcctatcca tgggaacttc ttgcttactg gtgcctatga      2340

taacacagcc aagatctgga cgcacccagg ctggtccccg ctgaagactc tggctggcca      2400

cgaaggcaaa gtgatgggcc tagatatttc ttccgatggg cagctcatag ccacttgctc      2460

atatgacagg accttcaagc tgtggatggc tgaatag                               2497
```

<210> 61
<211> 604
<212> DNA
<213> Homo sapien

<400> 61

```
catctgatca cgtcgcccgc cctagtctgc ttttgtgaat ctccactttg ttcaacccccc    60

acccgccgtc tctccctccc tgcgccttcc ctctaacctt aaagacccag ctacctctac    120

gcaaatggta gctacctctg cgcaggtgga agttgagttc ggttcacgcg ggaccctctt    180

ccctgtggca agctgctgaa ggagacctgc tgttactgct ttagctgctg ttctgcttaa    240

tctcagacag ctggaaggta gtattccgcc ctcgcccagc cacccgagta aatgagaatg    300

atgactgact gagaccctga tggtggtggc ttaggcttaa tctcagacag ctggaaggta    360

gtattccgcc ctcacccagc cacccgagta aatgagaatg atgactgact gagaccctga    420

tggtggtggc ttaggcaaga tgaacgtctg aaatggaggc ccagggctgc cacgatggct    480

ctgtagtcat cagggaggga gctccttta tcttgttacc tactcccctc ttgtgcccct      540

ttcttccctt gatctaagaa ggttgctccg ggatctcgcc atctggcctg cgttcaatca    600

gcag                                                                 604


<210>   62
<211>   4733
<212>   DNA
<213>   Homo sapien

<400>   62
atggagagaa accagaacag aaaagtggaa aattccaaaa accagagcgt ctcttctcct    60

ccaaaggatc acagctcctc accagcaagg gaacaaaact ggatggagaa tgagtttgat    120

gaattgacag aagtaggctt cagaaggtca gtaataacaa actcctccga gctaaaggag    180

catgctctaa cccatcacaa ggaagctaaa aaccttgaaa aaagtgttaa cactcctgtg    240

gacgttttgt ctttgttttt caccccagtc cacacctctg ctgttagtga ggggctcctg    300

gtcatcacag ccacatgtgg actcccctgc tctgtacctc ccagcctttc tgccaacagc    360

actggcctca cagtgctgtc ctggggattg agtgagatag ctataatgtg gagtcgctgc    420

tgcctgctaa ctcgcccaga cgttcttcga gtgtcacatt tgaagacgag cactgaggat    480

gaggaaccaa ctgaagaata tgaaaatgtt ggaaatgcag catctaagtg gccaaaagtg    540

gaggatccta tccctgaatc taaggttggt gacacatgtg tttgggatag caaggtagag    600

aatcaacaga aaagcctgt ggaaaacagg atgaaggagg acaaaagcag catcagggaa     660

gcaatcagca agccaagag tacagcaaat ataaagacag aacaggaagg tgaggcatct     720

gagaagagct tgcatctgag cccacagcat atcacacacc agactatgcc tataggacag    780

agaggcagtg agcaaggcaa acgtgtggag aacattaatg gaacctccta ccctagtcta    840

cagcagaaaa ccaatgctgt taagaaatta cataaatgtg atgaatgtgg gaaatccttc    900
```

```
aaatataatt cccgccttgt tcaacataaa attatgcaca ctggggaaaa gcgctatgaa    960

tgtgatgact gtggagggac tttccggagc agctcgagcc ttcgggtcca caaacggatc   1020

cacactgggg agaagccgta caagtgtgag gaatgtggga aagcctacat gtcctactcc   1080

agccttataa accacaaaag cacccattct ggggagaaga actgtaaatg tgatgaatgt   1140

ggaaaatcct tcaattatag ctctgttctg gaccagcata aaaggatcca cactggggag   1200

aagccctatg aatgtggtga gtgtgggaag gccttcagga acagctctgg gctcagagtc   1260

cacaaaagga tccacacggg ggagaagccc tatgaatgcg acatctgtgg gaaaaccttc   1320

agtaacagct ctggccttag ggtccataaa aggatccaca caggtgagaa accttacgaa   1380

tgtgatgagt gtgggaaggc cttcattact tgtagaacac ttctcaacca taaaagcatc   1440

cactttggag ataaacccta taaatgtgat gagtgtgaga atctttttaa ttatagctct   1500

cttctcattc agcataaagt catccacact ggagagaaac cttatgaatg tgatgaatgt   1560

gggaaggctt tcaggaacag ctcaggcctc atagtgcata aaaggatcca cacaggagag   1620

aaaccttaca agtgtgatgt ctgtggcaaa gcattcagct atagctcagg cctcgcagtc   1680

cataaaagca ttcaccctgg gaagaaagcc catgaatgta aggagtgtgg gaaatccttt   1740

agttataact cactacttct tcaacacaga actattcata ccggagagag accttatgta   1800

tgtgatgtgt gtgggaaaac gttcagaaac aatgcaggcc tcaaagtcca caggaggctc   1860

catactgggg aaaaaccata taagtgtgat gtgtgtggga agcctatat ctcacgctct   1920

agccttaaaa atcacaaagg aatccacctt ggggagaagc cctataaatg tagctattgt   1980

gagaaatcct tcaactacag ctctgccctt gaacagcata aaaggattca taccagggaa   2040

aaaccctttg ggtgtgatga gtgtggtaaa gctttcagaa ataattctgg ccttaaagta   2100

cataaacgaa tccacactgg gaacgacct tacaaatgtg aagaatgtgg gaaagcatac   2160

atctctctct cgagccttat aaatcataaa agtgtacacc ctggggagaa gccctttaag   2220

tgtgacgagt gtgagaaggc cttcatcaca taccgaaccc ttacaaacca caaaaaagtt   2280

catcttgggg agaagcccta caaatgtgat gtgtgtgaga atctttttaa ttacacatcg   2340

ctcctttctc agcacagaag ggtccacact agagagaaac cctatgaatg tgacaggtgt   2400

gagaaggtct tcagaaacaa ctcaagcctt aaagttcata aaagaatcca tactggggag   2460

aggccctatg aatgtgatgt gtgtggaaaa gcctacatct cacactcaag ccttattaac   2520

cataagagta cccaccctgg caagacaccc catacatgtg atgaatgtgg aaaagctttt   2580

ttctcaagca gaactcttat aagccataaa agagtccatc ttggggagaa accctccaag   2640

tgtgttgagt gtgggaaatc tttcagttac agctctctcc tttctcagca caagaggatc   2700
```

```
cacacagggg agaaacccta tgtgtgtgat aggtgtggga aggccttcag gaacagctca    2760

ggcctcacag tgcataaaag gatccacaca ggtgagaaac cctatgaatg tgatgagtgt    2820

gggaaggcat acatctcaca ctcaagtctt atcaatcata aaagtgtcca ccagggggaag    2880

cagccctata attgtgagtg tgggaaatcc ttcaattata gatcagtcct tgaccagcac    2940

aaaaggatcc acactggaaa gaagccatac cgatgtaatg agtgtgcaca tacccaac     3000

gccaccgcgg acctcatgaa agtggaccat gaagaggagc cccagctctc cgagccctac    3060

ctttctaaac aaaagaagct catggccaag atcttggagc atgatgatgt gagctacctg    3120

aagaagatcc tcgggggaact ggccatggtg ctggaccaga ttgaggcgga gctggagaag    3180

aggaagctgg agaacgaggc actttcccag tggaaagaat ttgatgccat ttccgcacac    3240

ccaaattcct gttggcagga taatcagcaa gtaatacaga gagctgcttc cttcaacagc    3300

tgcattcagc acaaaaccga gggccgatta tgtggagaaa tatccttcag agaagcatgt    3360

gatctttgtt ctgccttttg ccctttgaag catatgatct ttgttcctac tccctgttcg    3420

tacactccct ccccttttga aatccttaat aaaaacctgc tggttttacg gctcaggaag    3480

cttctgctga ttgaacgcag gccagatggc gagatccgga gcaaccttct tagatcaagg    3540

gaagaaaggg gcacaagagg ggagtaggta acaagataaa aggagctccc tccctgatga    3600

ctacagagcc atcgtggcag ccctgggcct ccatttcaga cgttcatctt gcctaagcca    3660

ccaccatcag ggtctcagtc agtcatcatt ctcatttact cgggtggctg ggtgagggcg    3720

gaatactacc ttccagctgt ctgagattaa gcctaagcca ccaccatcag ggtctcagtc    3780

agtcatcatt ctcatttact cgggtggctg ggcgagggcg gaatactacc ttccagctgt    3840

ctgagattaa gcagaacagc agctaaagca gtaacagcag gtctccttca gcagcttgcc    3900

acagggaaga gggtcccgcg tgaaccgaac tcaacttcca cctgcgcaga ggtagctacc    3960

atttgcgtag aggtagctgg gtctttaagg ttagagggaa ggcgcaggga gggagagacg    4020

gcgggtgggg gttgaacaaa gtggagattc acaaaagcag actagggcgg gcgacgtgat    4080

cagatgacct gtgcgggcgg cagcctcctg ccctcctccc cttcgtgcgc cggctggagc    4140

gaagagttct tttgacagcc gtgagcttcc ccgccaggaa cttactgggg ctgcatcacc    4200

ctagaaacgt ggctttgggc tgtggaaacg ctgcctctgt ggaagtctct cctcgcgggg    4260

gtggacgggt cgctgcgcgc ccagcgttct tctgcggttc tcacagcccg cccgccgccg    4320

ccgcctcggg gaccctttgc ggggaggcct caggtcagcg ccgcccccttg cgatggcggg    4380

agagcagagc ggccccaggg cctctgagct ccggccccgg cacgtcccgc cctctcctcc    4440
```

```
gcttgcggga gccggggcgc ctcggaggga aaccttcccg gacacaggcc gggagaagag    4500

gggcccgtgg cgccatcggc gcagcgttcc tggtttcggc catgtttttt ttttttttttt    4560

tgagacggag tttcgctctt tttgcccagg ctggagggca atggcgccgt ctcggctccc    4620

tgcagccgcc gcctcccggg ttgaagggac tctccggcct caggccgcgg tgttcttgta    4680

aattagaacc ggcctatgcg ccaagcgcgg gtctcgcggc tgcggagaga ggc           4733
```

<210> 63
<211> 577
<212> DNA
<213> Homo sapien

<400> 63
```
aaaaacaaac aaaaaaacca gttatttact tggctataac aatgtctgta aatggtaaag      60

acagaaaaca acctaagttg ttcattgggg gactagataa atttaaattg gttacattcc     120

atacaatgtg gaagataaag tagctgtgag gaacgatgcg cctcctccct ttacagatgt     180

ggaatgaccg ccaagataca gccaggaaaa aagcaagaag agaacagttg gtgatctgct     240

gtttcagttc aaaataacca attttaaaaa aatgtctcta gaaggctaca taagaggctg     300

gtgagacagt ggtcctgtgg gagggaatgt gggtaacagg caacaggatg ggagggatgg     360

tcaccataca tcttttggca cactctgcat tttgaaacat atgattggtt ttccctagtc     420

taacaaaata actttaggtc caactgactg tagtaaattg gtcactagca aaaaaaaaa     480

aaaaaacaaa aaaagcgtgg ggggaacccg gggccaacgc gggtccccgg tggggaatgg     540

gtttcccggc tccaatttcc ccccattttg cgcacaa                             577
```

<210> 64
<211> 744
<212> DNA
<213> Homo sapien

<400> 64
```
aaaaacaaac aaaaaaacca gttatttact tggctataac aatgtctgta aatggtaaag      60

acagaaaaca acctaagttg ttcattgggg gactagataa atttaaattg gttacattcc     120

atacaatgtg gaagataaag tagctgtgag gaacgatgcg cctcctccct tacagatgtg     180

gaatgaccgc caagatacac agccaggaaa aaagcaagaa gagaacagtt gtgatctgc     240

tgtttcagtt caaaataaca atttaaaaaa atgtctctag aaggctacat aagaggctgg     300

tgagacagtt gctctgtggg agggaaagtg ggtaacaggg aacaggatgg gagggattgt     360

caccatacat cttttggcac actctgcatt ttgaaacata tgattgtatt cctagtcta     420

acaaaataac attaggtcca actgactgta gtaaattgtc actagaatct ttgtcttgga     480
```

```
gtcatttgat tttatttttc acagaagggc atatggttag atagcctaaa acagcagggg    540

agggagcagt gtgtgctagg agctgccaca tgccaggcac ctgatagata ccagctctat    600

ctcacgctcc ccctgtccct tgaggtaggt gtttctgttt ctacttacaa gaaaatagac    660

taaggcgtaa agtaacacaa tcacggtcac acatgtggca agcagcacag cctggatttg    720

aagctaggca agtctgactc taag                                           744
```

```
<210>   65
<211>   318
<212>   DNA
<213>   Homo sapien

<400>   65
taagtgtttt aaagaaacta gagcagcaga gaagagagac tcagaagccc gtggcacggc     60

tttctcggcg tcccctccag cgaggggtc tccattgctg cagttgccgg ttttgtccaa    120

ccaggtcagg aggctgcccg gccccctccc cactctcaaa gttgcttgtt aaacacagag    180

tcgtaatttg tggctaaata taactagtgt gttctcacgg aaagtataat tcagggtgct    240

cattgtatga ggttatcaac aagacccatc tgggttaaat taaagtgatt ttcataaagg    300

gcagaagcgc ccctttac                                                  318
```

```
<210>   66
<211>   2505
<212>   DNA
<213>   Homo sapien

<400>   66
ctgcgccccc aataatcgtg tgttgggtat ctctccattg ttccctgggc cattagtcaa     60

agggcaaatt agaaacaatt tcttgacgac aaaaattgac tcttaattct tcccaccaga    120

ggcgcagggg gacaagtcca gaggccaggc ctgaggctgg ggctggcggc aggagggggta   180

ggcggggtag aggtggggta gaggtggggg atctaagatg gttcacagca cagagacctc    240

cctcaactgg agggcagcag cagctcaccc ccaccccaga atcagtgttc cagaggacag    300

ctggggggcag ggggttagga acaatcccac tccctcctgg aagaggtcct gacccccac    360

cccacccatc tgcctgtacg ggtccctctg ctatcgactg gggcgagttc ttttcatgag    420

ggccttgcct ggtgcctgga gggaacaggg tgtgggggaa aggtctgtgt gttcccccct    480

cacctcccct gctcagcggt gtggcctctg gctctgggga ggatcgggaa gccccagggt    540

ccgtgccttg gagtggggg acagcctttt ctctgccaca gcttctgcct ttgggggctt    600

acccttccta ggagcagaac tgttgtggag gggaagagga cggtgaaggt tccgaaggga    660
```

```
agggggctgc ccccactgaa aacgaagctt ccagtcacag cccccttcatt atttatcagg    720

acccagggga tgaggtggca ggggagggggg ctgcatggag ggagtgccct caccctcgtc    780

cccagcgcct gcccctccc gaccaggcct gggctgaggc ccagggtaag ggggctgagg    840

caggccacag aggagcaaga cttgtcaggg gccagacctg ggtaggagga ttgtcctcca    900

ggcacacacg gcccccagcc ccccagcctg tcgaactggg ctctcccaga aggtccccgg    960

ctccagccca agcagggagc caggttgggg gtgtgggaag gcagaagtcc cagggatcct    1020

gggggaggct caggttgtac ctgcaggcca cagtctcctc gacagacctc ggacgaggtt    1080

gtaagtgttt taaagaaact agagcagcag agaagagaga ctcagaagcc cgtggcacgg    1140

ctttctcggc gtcccctcca gcgaggggggt ctccattgct gcagttgccg gttttgtcca    1200

accaggtcag gaggctgccc ggccccctcc ccactctcaa agttgcttgt taaacacaga    1260

gtcgtaattt gtggctaaat ataactagtg tgttctcacg gaaagtataa ttcagggtgc    1320

tcattgtatg aggttatcaa caagacccat ctgggttaaa ttaaagtgat tttcataaag    1380

ggcagaagcg cccctttgcc tggtttcccc tgccttttta ttagtgacag tgttattgtt    1440

gcaattatta gaggggatca aggaaggtgg gagttgccag ggaccccag gctgaggagg    1500

gagcctccca gcccccctcc actcaccatt gtcctgctgc ccctccagcc ccctggtcac    1560

tgtcacctct gcggctggag ggctggagaa aggcccagga gcccagggaa cctccaccat    1620

gccaggctgc cttccctaaa ggccggctcc ttcccccag gcagccagtc tgggggtgga    1680

cctggagggg cagggttctc tgggaatctc tgggccaagg gatgcccttt ggggatctgc    1740

tggaataaag agtaatcggt tttccttgca ggaggttgac ccgaaacagc cctccgtctt    1800

cctgcccatg aggatgagga caggaagcca gacccgggag agaaagccca gatcagacag    1860

atgggggttg ggagggccta gtggctgaaa ctgccctgct tggggacaat gctcaggcag    1920

gaccaatcca aacgagggca ctgcttatgt ggtccttccg gagcatcctc caaggcagag    1980

cctggcttcg ggccctccct gcaaggacac ctgcctccac tccctgccag accaggcctg    2040

gctgcagagg cggaggggcg gcagggctgc ctgtctccac tgtttggcgg tgtttacacg    2100

tgtcgctgtc agggtgtctg gacagtgggg gtcgggggcc tcccgggccc agacttcccc    2160

acgctcccca agagcagcag atgtaggtct cccggctccc aaacctctga gatgctgctc    2220

tgtctgaaat catcatataa ataatcattt tttaatacaa gggggtgggg gtgtcaggca    2280

agttccatga aattgtgaat tagccgctgc tccaaataaa tgcctgcttc ggcccgagag    2340

cagccgcgct gcgcccgctg cgcccccaat aatcgtgtgc tgggtatctc tccatttgtt    2400

ccctgggcca ttagtccaaa gggcacaatt agaaacaatt tcttgacgac aaaaattgac    2460
```

tcttaattct tcccaccaga ggcgcagggg ggacaagtcc cagag   2505

<210> 67
<211> 247
<212> DNA
<213> Homo sapien

<400> 67
actgagcagc tacggaatgc aaggcactgt aggaagtagg gtgagtatac tccccacaag   60

ggctcagggt caggcagggg aggtgagata aaaacccaca gccatacact agctggcctg   120

tcctgagggt tgtgaggcac aaaatgctag gagactagag aagtaagaaa tgtcttgaca   180

tgaggagaaa tcaaggaaag catggtttta gaacatgtgt gggatgtttt ttgtatcgag   240

actgaag   247

<210> 68
<211> 2458
<212> DNA
<213> Homo sapien

<400> 68
ttgcgctgtt ttgggtgatc ttgtggtgcc gtcgcgcgcg tcatgcttgt tttctcagcg   60

gtgctatctg tgcgtcggta tgtgtgtctg ctgcacgggc tggtgcgacg cgtggtttgt   120

gctcgtgatg aatgggctgc ggcgtttgtg cctatggggc ctgttcaagt atggggggcct   180

ttgtgggcct tcggggattt ttggggggcg cgcccgttgc ttgtggttgg acggccgctc   240

tgaggatgtc aggtagcccg ttactggtgt cggaagtttg tgcaagattg agataaatga   300

ttagtaatta caggaaaact aacttgtaaa aatcttaaag acattgaatg ggttaatgta   360

ctgagcagct acggaatgca aggcactgta ggagtagggt gagtatactc cccacaaggg   420

ctcagggtca ggcaggggag gtgagataaa aacccacagc catacactag ctggcctgtc   480

ctgagggttg tgaggcacaa aatgctagga gactagagaa gtaagaaatg tcttgacatg   540

aggagaaatc aaggaaagca tggttttaga acatgtgtgg gatgtttttt gtatcgagac   600

tgaagaggct ttttaaagtg gagggaaggc aaactgaggc atagagatgc aataccagg   660

tcttgtcagg aagaacagag tccaatttgg ctgcaggata gggcatatgt aggggagggg   720

ataagactgg catgggggca gaggggggact tgaatgtcag gtgacagagt caaagcttgc   780

actcaagtag gtgattgata ggtgatcttg ggggcttttg agcaggaaga gtgataaatc   840

aacattggct taggacaatc cctttggctt tggcgaaatt gtgactcagg taagggacag   900

ttggggggaga caaggatggg aagatgcatg ataaatgggc cctgagcttg gcaggcaaca   960

```
ggaaggcagt gcaatgtttt gtagaaatag acttagcaga gcaggcgccc agcattcagc    1020

gagaccacag attcttagcc actgtatgac ttgaaggtga tactaactcc cctgaacctg    1080

tctcatctac aaaatgggca tagtagcacc tatgtcatag ggttgcttta tggcaggtaa    1140

ttattcttgt aaagcattta gcacagctct gatgacacat ggggaatgct cagtaaatat    1200

taatgtcact aattccagtc aattccatta actggaatta attagttgga gttaggaagg    1260

aaacaggtgt cagctgggtc gactgaagga agcagagatc tcaggaagca gtacatggtg    1320

gtacagtggg agcatggcat ctgtggggga gactgtctgc agtgggatcc cacctctatt    1380

gctggccagc tgtgatcttg tacaggatac ttaacccctt tctagctcag tttctttagc    1440

tgtaaagcca gcgcaatgtt accatggagc tggtatgtga aagcaatgca tgttaagtgt    1500

gtagtatgtg cctgatacat tgttagtgcc cagtaaatgt tagttatcag gtgaggggtg    1560

ggatgtgggg ttgagtagat ttgcctcgtc cactcataga ggcaggatgt gcaaggaggg    1620

gtggagacat gcagcaaggg attgggcatg aaggttttct ccaggcccgg ggagaacact    1680

cggcctggag atattcagga gtccctggcc cagaggagat tacaactctg cagggatatg    1740

agccacgagt ggagtgtaga cataggccta aggaagcaat cagacacttc cagaatagag    1800

gacatttgct aagacagctg gcctggatgc ttcaaaaagt atcatgggaa aatatgtcgg    1860

ggttgttgta gactgaaagt gactagagtt gaaaccaaaa gaatgtatga accttgatgg    1920

gacctggttg ttgtcgttgt ttttaaagac aaacattctg gagacaattg ttgaatactg    1980

attaagggct ctgtattaga ggctataaag aagttactgt ttatattttt aggcatgatc    2040

atcttaatgt aatcatgtag aacggtgtct ttgtgctcag gaaatctatg tggtaatact    2100

caggggtcga aatgtcattc tatgtacaca tgcatggggt ggagagaata gtaaatctgg    2160

caaaatgtta acaactattc aatccaagtg gagagtatgt atctgagtat tcattgtgct    2220

agcctttcaa ctttttctgg atgtgtggaa tttttcaata taaaaaaata agaaaaaaaa    2280

gaggcctatg gaaaaactgg gaaccagtat gcaacaggaa aaggaattct ttgaaggaaa    2340

aacaggatcc acctaccaag agagcaattt caagggagag attaagcaca caatgaaggc    2400

tgcaaataga tcatcatatt tggtcactgg gagattgtgg cagcttggaa atagtccg     2458
```

<210> 69
<211> 894
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (341)..(341)

<223> a, c, g or t

<400> 69
```
gatgataatc atataggcca atggtgactc tagatctgct cgagcgggcg cagtgtgatg      60

gatcgtggtc gcggcgaggt actccgctac tctttactt cttttgtaaa gtattgactc      120

tggaaggcta cagtatacaa agtctcaaca tgtttttaa aagaaataag gagcaagcga      180

ctgccctgct agaaatcaca aaccgatttt tgtagaatat tttgtgcccc aggcattaat      240

ttcactgact ccagaacctg cagttcagag aatgatttct tatgatgata aaaatcgaat      300

gggatcagac gatggtttgc atttttttta attaacttgg naataggaca cctcaagttt      360

gagatttcat tttctttag aacacagtca caagattaat ctggtgaatc cttttgtcac      420

aggttctcgg tgtgtgtgtg cgcgtctccg tgtgtgtgtg tgtgcatgtg tgtaaaactg      480

gtcacattta attgctttt gggaccattg aatagttggg aagtaagaat ttttaattg      540

gcattaaaac ggtcctcaac tgttaaatta accaaatttg acctgtcttt aaaaaaaggc      600

ttatttgtat gattttgggc taactccccg gggaccatat aaatgacaa aaatgctcct      660

ttgggtgaca caccctacaa agtatttgct gttacgaaca taaacgccca cattcttaat      720

atctaatatt tttgaccagt gatgtcttat gctgtcatct gaacctagag aagcagtgtc      780

agaggaaacc tggtgtccat gtgtcttagc aaagggtact gatcgagggt ctgtgacaaa      840

gatggcccga gagctggggt atcatggcat agtgttctgg gtaatgttcg ccac      894
```

<210> 70
<211> 1335
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (278)..(278)
<223> a, c, g or t

<400> 70
```
cgtggtcgcg gcgaggtact ccgctactct tttacttctt ttgtaaagta ttgactctgg      60

aaggctacag tatacaaagt ctcaacatgt tttttaaaag aaataaggag caagcgactg      120

ccctgctaga aatcacaaac cgattttgt agaatatttt gtgccccagg cattaatttc      180

actgactcca gaacctgcag ttcagagaat gatttcttat gatgataaaa atcgaatggg      240

atcagacgat ggtttgcatt tttttaatt aacttggnaa taggacacct caagtttgag      300

atttcattt cttttagaac acagtcacaa gattaatctg gtgaatcctt ttgtcacagt      360
```

```
tctcgtgtgt gtgtgcgcgt ctccgtgtgt gtgtgtgtgc atgtgtgtaa aactggtcac      420

atttaattgc tttttggacc attgaatagt tgggaagtaa gaatttttta attggcatga      480

gacggttcct caactgttaa attaaccaac tttgacctgt ctttagaaaa aggcttattt      540

gtatgatttt gggctaactc cccggggacc atattaaatg acaaaaatgc tcctttgggt      600

gacacaccct acaaagtatt tgctgttacg aacataaacg cccacattct taatatctaa      660

tattttgac cagtgatgtt ttatgctgtc atctgaaccc tagagaagca gtgtcagagg       720

aaaccttggt gtcacatgtg tcttagcaaa agggttacca tgatcgaggg tcatgtgacc      780

aaaagatgct ccagagaagc ttgagaattt gtttcaagtt gggaggaggg ttggagatac      840

aaaaatcact ctgctctaca ggactcttca gctgtctatg caagaaattc cgttttctct      900

ttcagcacct ggaaagacac agcagcccac tgaggcgata ggtgattcac taagcacaag      960

aggaatgttt tctaagcaag gcgtcccttg cctctcaaac aaatgccctc caagtttgtt     1020

agggtttcta ttcctgcaac ttgtggtatc aaaaccactt cctgaaattg tcaaagcact     1080

gccaaaataa atgttttttcc cccttctaag aaaaaaaaaa tgacagtgct catatttgac    1140

acttgtgtat tggactctct tttgaatgaa taaaaaggaa aaggggtttg gtgtaattcc     1200

tgatggggtg cgtgttgttt ttcatgccat ggtttgtgaa ttttaattgt ggtttcccat     1260

ttcgttgttg taactgggca gaaattaaaa aagaaaaatc aataaaaata caaagaaatg     1320

gttaaaaaaa aaaaa                                                       1335


<210>  71
<211>  137
<212>  DNA
<213>  Homo sapien

<400>  71
cgggcaggta cgcacaagca ggcccagctg ggagacgcta ggataactaa gacctggtca       60

gcgccctgag gagtcttgtc tggataaagg gagacacaca ctagcttgga cttatgcgtg      120

cagcggagct gtgtaga                                                     137


<210>  72
<211>  694
<212>  DNA
<213>  Homo sapien

<400>  72
ccgcccgggc aggtaccaac cccagcacac cccaacagcc tttcctcggc ccctcctcag       60

gcctcctaat tactctttct cagcctggag tgtggggccg ttaccgtcct cttcccccctt     120

ctccttccat actgcactta accttgctgg aagacttaat gatggagatt tagggcaatc      180
```

```
tgtggctgct tggacccttc cctggaccaa aggaacttaa aacccaaacc tgacactgga    240

atgaaatcca agttttaaa tatcacctTT caatcactca cagatctcac tctatcttaa    300

aatactcagc ctcactcctt aatgagtgct tgctgaaggg agaaaattcc attttaaaaa    360

cgtattcact ttactgatta ctgtgcaatt tgaattaagt cacgattctt tagtaaatgg    420

aggtgagaat ctcagattca aattgtcaga gaccatgatt tagaagtcta ccaaacaccc    480

agtttccttc cactgtttta gggtaacagg aaaacatgag attggggtgg tgtccgctat    540

taaatggaac cacacatcat gaaattcaat tctcatgtta agacattctg tattgtggga    600

tgtcaaaagt atttcccaaa ctttcgtttg acctgcagag ttggagatgg cttacctccc    660

tataacttca agtttgtttc acaaagcttg gcgt                                 694
```

```
<210>   73
<211>   8095
<212>   DNA
<213>   Homo sapien

<400>   73
tttttttttt gccacctaga gatgataatt tattgtttta ccatgactca gaagagaaac     60

aacataaaga gaatatttca atccccaca atttccttcc tcaacctcac tactcttaac     120

atttctttat cagacgccac tggcttccta aaatggacca ctgactatgt atgtgtacac    180

atttcattat gctgcctttt ctcttatgat taaaacttta gccctcattc gaggtttcca    240

atggttactt ttagtggagg agttccctag cttttaaaaa accactttc ctctaagatt     300

ccattattta ttgaaagaag tctttctaga aatgttaagg aggattttaa atgaacacat    360

tcaattaaaa aaaaatcac gtattgaaca tctaccaagc atctggactc ttcggaacct     420

agtaaaatga aaaaatccag ttttaacaac agtaacttca ttctgcgggt atacagagac    480

aagcacgttt cttcttttgg tctaatttat tctaaacgaa gaagctggga actgacaaaa    540

caggacaggt tgtttttaat ccagtctaca aataaacaag acaatgcctg agttagccct    600

ctatatagat ttaggcttat gctgacctcg ttgtaaaatc tgtatttaac taaaagttaa    660

taaaaataca tatgttcatt ttaaataat tactgatttt gcttggctat cccaccccTT     720

accccaaac tcatatattt ttaggacaag attttcctgc ataaccacaa cctgtctcct    780

cccacccac ccccatcata gatgttttca aataagaacc cctgcgatca gcagaagcat     840

ctctaatcta acatgctttg tccttgctag ggcaggctaa aagctttaaa aagcaaccgg    900

atgctcttct ctggttgagg tgaggggaag gcgctcgggt accaaccccca gcacacccca    960

acagcctttc ctcggcccct cctcaggcct cctaattact ctttctcagc ctggagtgtg   1020
```

```
gggccgttac cgtcctcttc cccctctcc ttccatactg cacttaacct tgctggaaga   1080

cttaatgatg gagatttagg gcaactgtgg ctgcttggac ccttccctgg accaaaggaa   1140

cttaaaaccc aaacctgaca ctggaatgaa atccaagttt ttaaatatca cctttcaatc   1200

actcacagat ctcactctat cttaaaatac tcagcctcac tccttaatga gtgcttgctg   1260

aagggagaaa attccatttt aaaaacgtat tcactttact gattactgtg caatttgaat   1320

taagtcacga ttctttagta aatggaggtg agaatctcag attcaaattg tcagagacca   1380

tgatttagaa gtctaccaaa cacccagttt ccttccactg ttttagggta acaggaaaac   1440

atgagattgg ggtggtgtcc gctattaaat ggaaccacac atcatgaaat tcaattctca   1500

tgttaagaca ttctgtattg tgggatgtca aaagtatttc ccaaactttc gtttgacctg   1560

cagagttgga gatggcttac ctccctataa cttcaagttt gtttcacaaa gctttgaaaa   1620

gtaaaacaga taatttcatt ttcagataat aaaaaatctg aatagcaaaa taattgcttt   1680

taaatgtagt gtgtccactc taaaaaaaaa aaccctaaat ctatgttaga aaaactttc   1740

aaataatgcc ttttattaaa ttctccagta gtagttgaaa taaaaatcta ccctaatttc   1800

tatgaaatga tctatttata tcactgactt ttcttttct ctgattctat atttcattta   1860

acaatctgca gactttcacc ccatttccca gatgggaaaa ccctagcccc ctcgtatctc   1920

tgagaagttg ctcagagtag gacacagaga aatatggccc ccaccctggg aagtactgct   1980

gtcactgttt aagtgtattt cagttctgtt actccaattc atacacacag tcttccatga   2040

ggatggtagg atgaacctgg ttagctggct ttggataagt agatcagcat gactacctgg   2100

aataaaagtg actgactcta ggataaaaat taaaaaaaga ttctttcaca gcaacgagtc   2160

tttgcaaaac ctctctccta ataatcacaa accaggggaa gaaaagtggg agcagggaac   2220

acaggaacac agccaaaggg aatattgcaa aatgcttccc gagcttcatc agacagactt   2280

cttgcaatgc cacgactgga tgcatctgca cacaattccg ggaaatgccc accttgctgt   2340

tctcctatcc ccaattttct ttctttcttt ctttcttttt ttctttttt tgagacagag   2400

tctctgttac ccaggctgga gtgcagtggt gcaatctcgg ctcactggca acctctgcct   2460

cccagattta ggtgattctc ctgcctcagc ctcctgagta gctgggacta caggcgccca   2520

ccaccacgcc cggctaattt ttgtattttt agtagagaca ggctttcacc acgttggcca   2580

ggctggtctc aaactcctga cctcaagtga tccgcccacc tctgcctccc aaagtgctga   2640

gattacagga gtgagccacc gtgcctggcc agtcctatcc tcccccaac cttttttttt   2700

tttttgacat ggagtctcac gccatcaccc aggctggagt gcagtggcgc catcttggct   2760
```

```
cactgcaacc tccgcctccc atgttcaagt gatcctcctg cctcagcctc ctgagtagct   2820

gggactacag atgaagacaa gcacctgtgg tgccctcac  tgcaagaagt cagggaggca   2880

ttccacagcc tgggtgccca cagtcctgcc ctgtaccctc tggggcccctt ttggcacggt   2940

ggcagcgctt ccagatttcc tttcagaaag atgcagtcct tccgcagctg ggccatgcag   3000

atctcctggc atccaacttg ttggaaacag tggccctctg ctcaatgatg agactgggga   3060

ggggaaacag gaggacattt caaggaaagg atggagcgtg gatatgaatg ggaagcgggt   3120

ggtggggggag ctcatcagca tcctcagagg ggctcatgcc cacgctgcaa cacagaatgg   3180

gacttgccag atgtttgtag tcgactctga gtgccccgtg ctgagaaacc tgaaagcaca   3240

cccacctatg gctgcgcgtg ttgcacgctc aaggctgagt tcacatagtt ctgtagcctc   3300

ctcctacacc aagtcaggtc ggccctgtgt gaccagtaga agagatggga tgtcactttc   3360

gagggtgctt ccaggcgagg ctggcctgaa tgagaatgag gagcaggacg ctccccaaga   3420

gattgccttg gacatcagcc tgggccacat ctacaagttc agacccattc agcagctaaa   3480

ttccaggagc atcacggaga atctccggcg agctcagcac caaggcaggc actgtgctgg   3540

ctgtgggccg gatgctacag aaactgtgtt atcggacacg ggtcctgatc taggccccaa   3600

gagagagttc ttgtacaaga aagaattggg gccaggcatg tttctggcgc tgtgtgccca   3660

ggcccagccg ggggcctaca ctgatgagaa cctcatggga ctgattgagc tgctgtgccg   3720

caccagcctg gacgtggggc tccgcctgct gcccaaagtt gacctccagc agcttctcct   3780

cttgctcctg gagaacatcc gggagtggcc agggaaggcg cttccttcca ggacagatgt   3840

cccacggctt gcagatggct gggcccagga gacggtgcta gcccttcctc tgagagaagg   3900

ggtgcaggct gccgccaccg tgcccatcct cctgtacaac ctggaggatg gcttgtcaga   3960

ccatcccctg gaccagggcc ccgctgccct gcccggcggc cctgcagccc tgcctcggct   4020

ccagctctca tcgccaaa   gaagcccaag atacaggcac ctggggaaac cgttgacggt   4080

ttttgctgtt ccagttttgg ctgcttctca agatcacgaa gcccagggca ctctgcaagg   4140

gtttctgcaa gttcagcagt tcatcgctgg agggcgcttc cttccaggac agatgtccca   4200

cggcttgcag atggctgggc cccaggagac ggtgctagcc cttcctctga gagaaggggt   4260

gcaggctgcc gccaccgcgc ccatcctcct gtacaacctg gaggatggct tgtcagacca   4320

tcccctggac caggggcccc gctgccctgc ccggcggccc tgcagccctg cctcggctcc   4380

agctcccaca tcgccaaaga agcccaagat gcaggcacct ggggaaacgt ttcccactga   4440

ctggagcccc ccgcccgtgg aattcctcaa cccgagggtg ctgcaggcca gtcgggaggc   4500

cccggcccag aggtgggtgg gtgtggtggg cccccagggc ctgaggagac tggctggtga   4560
```

```
gctgcccgag gagttggagc aggaacacct ggacttggac ccgaagaggg gcctggcctt    4620

gccagagaag ctgttctgga acacgtcagg cctgagccag caggctgcgg ccccagagtt    4680

ttcctggggg ggctcaggaa gctacttcaa caacctggac tacttactgc aggagaagag    4740

ggaacaggcc ctggagcagg agcgagagag gctgcttctg caggagtgtc tcaatctcaa    4800

ctccttggat cttgatgaag aggaagtgcc actcacaccc gagcacagaa agaggcaaga    4860

gagctctctg gggccctttc ataagggtac caatcctatt catgaaggct ccaccctcat    4920

gcctcatcac ctcccaaagg ccccacttcc taataccttc accctggggc tttccttccg    4980

gagacaagca gtaaataaga tcagtgaagt tgtgctgcaa gggctcctga aaaggctaa     5040

cgctgggggc ataaggagtg ctgggaaagg tgtgggctct gatgatgtgg gctctaatca    5100

tgtgggcttt gatgatgaag gctctgatga tgaagggatg ctggtggaaa agtactcagt    5160

gtccctgcag accatcccgc cggtccatcc aggtgagact gtgtttctgc ccaggtgtca    5220

ccccctgcca tgcatcctgg actcctcact cctgaagcca cgcagccacc tggaagggct    5280

gttcctcagg cagtatgctg agcattggga cctcaaggat gaggaagatg cagtctctgc    5340

cctagaggag cttacagcag caggaagttt ctgtcatagg acagacccag ggctcaccaa    5400

gactcaagca gatgatgaag cctggggctc actggcccaa tcagcgtatt cagactggct    5460

ggctgcttat gaggctcttg ggccagggct gcctgctcag tgggcagctg actctagctg    5520

ctgcaaaatg cctttcactc aaaggttttt gcttttgcca atcccctccc tcacatgcct    5580

tgaaacaagc actttcaaag acaaagacat aaacaacaaa agggtgcagg ctgagttgcc    5640

aacttacagt gtcattgggc cgattcaggt tcttgactgc tgcacaaaag aatttgagag    5700

caagtacaaa gcaaaagtag gtaaagaagt ttattgcaaa gcgaagatct cctgggaggc    5760

ccccgtggag aagaagactg agtgtatcca gaaagggaag aacaaccagg tgggtgcttg    5820

gacgctgctc ctggtgctgc cttcacccca ggacgtctcc tcccattctg gccctcgcgc    5880

tctcactaac cggacacctt ctgcccca gaccgagtgc ttcaacttca tccgcttcct     5940

gcagccctac aatgcctccc acctgtacgt ctgtggcacc tacgccttcc agcccaagtg    6000

cacctacgtc aacatgctca ccttcacttt ggagcatgga gagtttgaag atgggaaggg    6060

caagtgtccc tatgacccag ctaagggcca tgctggcctt cttgtggatg gtgagctgta    6120

ctcggccaca ctcaacaact tcctgggcac ggaacccatt atcctgcgta acatggggcc    6180

ccaccactcc atgaagacag agtacctggc cttttggctc aacgaacctc actttgtagg    6240

ctctgcctat gtacctgaga gtgtgggcag cttcacgggg gacgacgaca aggtctactt    6300
```

```
cttcttcagg gagcgggcag tggagtccga ctgctatgcc gagcaggtgg tggctcgtgt      6360

ggcccgtgtc tgcaagggcg atatggggg cgcacggacc ctgcagagga agtggaccac       6420

gttcctgaag gcgcggctgg catgctctgc cccgaactgg cagctctact tcaaccagct      6480

gcaggcgatg cacaccctgc aggacacctc ctggcacaac accaccttct ttggggtttt      6540

tcaagcacag tggggtgaca tgtacctgtc ggccatctgt gagtaccagt tggaagagat      6600

ccagcgggtg tttgagggcc cctataagga gtaccatgag gaagcccaga agtgggaccg      6660

ctacactgac cctgtaccca gccctcggcc tggctcgtgc attaacaact ggcatcggcg      6720

ccacggctac accagctccc tggagctacc cgacaacatc ctcaacttcg tcaagaagca      6780

cccgctgatg gaggagcagg tggggcctcg gtggagccgc cccctgctcg tgaagaaggg      6840

caccaacttc acccacctgg tggccgaccg ggttacagga cttgatggag ccacctatac      6900

agtgctgttc attggcacag agacggctg gctgctcaag gctgtgagcc tggggccctg       6960

ggttcacctg attgaggagc tgcagctgtt tgaccaggag cccatgagaa gcctggtgct      7020

atctcagagc aaggtaaagc tgctctttgc cggctcccgc tctcagctgg tgcagctgcc      7080

cgtggccgac tgcatgaagt atcgctcctg tgcagactgt gtcctcgccc gggaccccta      7140

ttgcgcctgg agcgtcaaca ccagccgctg tgtggccgtg ggtggccact ctggatctct      7200

actgatccag catgtgatga cctcggacac ttcaggcatc tgcaacctcc gtggcagtaa      7260

gaaagtcagg cccactccca aaaacatcac ggtggtggcg ggcacagacc tggtgctgcc      7320

ctgccacctc tcctccaact ggcccatgc ccgctggacc tttgggggcc gggacctgcc       7380

tgcggaacag cccgggtcct tcctctacga tgcccggctc caggccctgg ttgtgatggc      7440

tgcccagccc cgccatgccg gggcctacca ctgcttttca gaggagcagg gggcgcggct      7500

ggctgctgaa ggctaccttg tggctgtcgt ggcaggcccg tcggtgacct tggaggcccg      7560

ggcccccctg gaaaacctgg ggctggtgtg gctggcggtg gtggccctgg gggctgtgtg      7620

cctggtgctg ctgctgctgg tgctgtcatt gcgccggcgg ctgcgggaag agctggagaa      7680

aggggccaag gctactgaga ggaccttggt gtacccctg gagctgccca aggagcccac       7740

cagtccccc ttccggccct gtcctgaacc agatgagaaa ctttgggatc ctgtcggtta       7800

ctactattca gatggctccc ttaagatagt acctgggcat gcccggtgcc agcccggtgg      7860

ggggccccct tcgccacctc caggcatccc aggccagcct ctgccttctc caactcggct      7920

tcacctgggg ggtgggcgga actcaaatgc caatggttac gtgcgcttac aactaggagg      7980

ggaggaccgg ggagggctcg ggcacccct gcctgagctc gcggatgaac tgagacgcaa       8040

actgcagcaa cgccagccac tgcccgactc caaccccgag gagtcatcag tatga          8095
```

<210> 74
<211> 435
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (86)..(86)
<223> a, c, g or t

<400> 74
ggatgttcga tcactatagc cttgtgcctc tagatgctgc tcgagcggcg cagtgtgatg   60

gatgtcgcgg ccgaggtact tcccanggtg ggggccatat ttctctgtgt cctactctga   120

gcaacttctc agagatacga gggggctagg gttttcccat ctgggaaatg gggtgaaagt   180

ctgcagattg ttaaatgaaa tatagaatca gcagaaaaag aaaagtcagt gatataaata   240

gatcatttca tagaaattag ggtagatttt tatttcaact actactggag aatttaataa   300

aaggcattat ttgaaaagtt tttctaacat agatttaggg ttttttttttt tagagtggac   360

acactacatt taaaagcaat tatttgtgct atccagattt tttattatct gaaaatgaaa   420

ttatctgttt tactt   435

<210> 75
<211> 608
<212> DNA
<213> Homo sapien

<400> 75
ggggggcata tttctctgtg tcctactctg agcaacttct cagagatacg aggggggctag   60

ggttttccca tctgggaaat ggggtgaaag tctgcagatg ttaaatgaaa tatagaatca   120

gagaaaaaga aaagtcagtg atataaatag atcatttcat agaaattagg gtagattttt   180

atttcaacta ctactggaga atttaataaa aggcattatt tgaaaagttt ttctaacata   240

gatttagggt tttttttttt agaggggaca cactcccttc ctactcccca acaagggct   300

cactatcccc aaagaaggag ctgtggggga cccacgacgc agccccggta cgggattaca   360

gcatattctc atctcgggcc ccgaggctgc ctgtggggcg aggggagacc tcccatcacg   420

gagacagatc acagaccacg agtgcctttc ccggaccggg acgtggcctc cagagcaggc   480

accagctctt tccctctcta gacagaaata ttttggtaag gttctggggc agggaggggag   540

catgaagtac gaggaaaact tgaattccag attcttaatg caaagtattt atcatttcta   600

ccagaaat   608

<210> 76
<211> 727
<212> DNA
<213> Homo sapien

<400> 76
gatgattcga ctcactatgg gcgaatgtgc ctctagatgc tgctcgagcg gcgcagtgtg   60

atgggtcgcg gcgaggtact tcctagacac tgtagtttaa aagaataatt tcctgtagaa   120

aaacctaatc taataggacc tactcataat ttggcaaaat catcctcata attccatgct   180

actgaaatgg gggtgtaata agaaaaaat catttgttta ttcatttaac agggtttatt   240

aaagcaccaa tatatgccca gaactttgca gtgcactgga agttcagaga taagaaagcc   300

acagtttctg ccatcaaaat gctaggaatc tagaggtctc aaacatcaga ggtcccttca   360

aactatgtct accaggaaaa taaaatacct gatttcatcc ctgcaaacaa ctctatacag   420

acagaaatgc ttcctagctt ggaaactata gaaaattgaa catgaaaatg agagcaaaga   480

ttctacatca aaatggcaat gatccaatca gcccagtcaa ggctgagtgg gttgaatggg   540

gacttcgagt ttggattcaa tgctttgaac ttcatagctc cagagaagct gtgcaaaaag   600

gggggattct agggaatctg aggaagattg ttggagaaac cagctttctt cttgtctcct   660

aatccctgct aagattgata ccagtcaagg agctgagtta ctttcatttc attatgttga   720

ccaagag   727

<210> 77
<211> 3052
<212> DNA
<213> Homo sapien

<400> 77
ggaggtggag gggaggagtg cctgcatggc catgggattg ttcttcattc cctttctcaa   60

ctgcacccag cagcagtggt ttttgctagg ccttttgaag acagcaggaa tctgggagaa   120

ggaacatcat cgtctttcac agcatggaaa catcaatctt attccagaga agggaagaag   180

tccccaaagg tatgtccggt ttaacagttt ctcaagtggg ccaggaagtt cttttttcatg   240

ttctgggctc aatcgtgatg ctttgatttc acttggtatt ttacttttag ttttgtctct   300

aacatctgga gcaaagatca gaagacctga gttccagatt tattctgtga ctcaatcact   360

gcttcaatca ctgagggacg tggtatgatg ttctttgctc tgagcttctg cttcttgatc   420

taaaaagaca ggtggttgtt ctgggtgatc aaaatctctt cttgctctgt gtatcttaga   480

atccatgaaa ttatgtctct ttgcatctat gataacaaat caaaatatga atcacaattt   540

tcttacaggg ttgctgaggt taaagccgtg aaagcctggg aacaaatctc cccagggaag   600

```
gtttaagcaa gcattaactc tttcttctgc aagttccccc attcattgct agggtgttgt      660

ctgatagcca ccatgcacag ttgactttcc ttgggaaatc atgagtcttt tattttttgca     720

atttggcttt atctcctaca catcatccag atggtgcaac atctggtact atatgtccaa      780

tggaattgcc acaactcagc cactgagatc caacattcct gcctctcttc attccaagat      840

tccttctgtt ctttattgtg gtagacaaga gcaagcattt ttatttgcag agatgtactt      900

atttaaaaag caattgtgaa agcatttgat ttaataatta ggattgtttc tccacgattc      960

tttttctgaa aaaaatttt tttggtgtaa atttagagtt cataagtaac accaaagact      1020

gagacaatga agtccatgca tactgtaaaa aaataacata aataacagtc cctagtatgc      1080

atcagtcatt gtactagagg ctttgtgtgt acattgattg tctcacttga aaatcaaaac      1140

acggcagaag agtcaaatgc ttttgaatgt gctgaaactc aaattttctt ccaggtcatc      1200

tctgtatgat tcctctttta cactgccatt actggcttct aaaaccacta aagctatgca      1260

gatagcctgg tcctaacatg ttctaaactg ggcattagtg aggggctgcc tgctggcttg      1320

tttaggggcc agttggctca gtttggaatg gtttaatatc agcaacaata gcattgggtt      1380

gatttgaata taaacaactt agactttaaa agttcatcct gaaaaacaag ccttcaagga      1440

caagtgagga catgaagcaa attcctaagg atgcctgggg ttcaggaagc aaagaagaat      1500

ctttggttat tcatgaaaac caaataccag ctatgtggca tcttctggga aagcacaggg      1560

gtgggagaat cctgggggtgt gtttggcagc actgtccaaa gtacagttga cttcttaggc      1620

tgctgaacaa atttcttctc ttgccccagg agaatttgat ctgcaggttc ccataagtag      1680

agtaacatct ttctcttgaa ataggtgctg tgtcaaagtc tgtatcataa gcttctcttg      1740

gtcaacataa tgaaatgaaa gtaactcagc tccttgactg gtatcaatct tagcagggat      1800

taggagacaa gaagaaagct ggtttctcca acaatcttcc tcagattccc tagaatcccc      1860

cctttttgca cagcttctct ggagctatga agttcaaagc attgaatcca aactcgaagt      1920

ccccattcaa cccactcagc cttgactggg ctgattggat cattgccatt ttgatgtaga      1980

atctttgctc tcattttcat gttcaatttt ctatagtttc caagctagga agcatttctg      2040

tctgtataga gttgtttgca gggatgaaat caggtatttt attttcctgg tagacatagt      2100

ttgaagggac ctctgatgtt tgagacctct agattcctag cattttgatg gcagaaactg      2160

tggttttctt atctctgaac ttccagtgca ctgcaaagtt ctgggcatat attggtgctt      2220

aataaaccct gttaaatgaa taaacaaatg attttttctt tattacaccc ccatttcagt      2280

agcatggaat tatgaggatg attttgccaa attatgagta ggtcctatta gattaggttt      2340
```

```
ttctacagga aattattctt tcaaactaca gtgtctagga agtaccttgc acaaaataga    2400

cacaggatgc ataattgttg attaattagt tcattttaac ctatacacct tggggttatc    2460

tagttatgtt ttcatgaaaa ctagggcttt gtaatatcaa tgtcatgtct aataagccta    2520

aatttccagt tctaaaaaca aagttattca acaacacttt ctcaatttga tgtgttttc     2580

ttttcctgaa ataattttt ttcttaagct tttgatattt gcttttgtgc tgacatttga     2640

tagtcaaaac tcaaacgatc tcaagtactt ctttctcagc tcaataggat catgtttcgc    2700

ttaacatttg tgaagttgat ttatctaatt cattttgatc ttgctaaaat atgacctta     2760

aaattttca tgtcacattg tgacccagaa agaccaaata catacatgag atcatagttt      2820

tacctgataa tatcactcct agtttgatga tggaattaat ttgtcaatat ttcatggagt     2880

tctgctgaaa cgattgcaat ttcttgggca gtttcagaa cgaccagcat atctgtggtc      2940

atgtcatctt gggtcatgtt aaccagttcc attggattat catgctgttc ccttgtctga     3000

caaaaggatc tttgtgaaag cacacactgt ttcttcccat aactcacatt ca            3052


<210>  78
<211>  416
<212>  DNA
<213>  Homo sapien

<400>  78
gccgcccggg caggtagcct ttttctctcc agccttgaat tgttccctgt tggcttccca      60

agggcccatc tgctggtaca gtccacactt ccaaagccaa gacccgagag ggctttcact     120

gccccaagcc tctctcctgt gaccttggga ttctgtcttg cagaatcct ttgtcagcgg      180

ctcttgctct gtccttcctg tttggccaca gctctttcaa tcaatgggta ttctagaacc     240

gcaggatgtc agagctggaa gggacgcgat accggtttac acaaggggaa actcctcgag     300

gctctgggag ggacggaggg ttttggtgac agagcgagag ctaaaattga ggattcctga     360

atccagatct tgcctcccat cagccatctt tctcccaata aatttatgtt atgtgc         416


<210>  79
<211>  1451
<212>  DNA
<213>  Homo sapien

<400>  79
taaaaacttt gtcccgatcc atccagaaaa gagtaggtag ctgcatcctg acagcctggc      60

aaagtcaaga aagttgaagg agaaacatac ctttggagag ggggtttttct ttaaaactag    120

tgttaagaaa tgcttaggga tttttttttc ttattttca taactaaagc tttcacccag      180

agccggctct gtttgcactt tgctgccgac attgcaaact ttttggcagg gtgggagact     240
```

```
gagtctcatt ctgtcaccca ggctggagtg cagtggcccg atctcagctt actgcaacct      300

ctgccctcca gggttctggc aattccgcct cagtctcctg agtagctggg attacaggca      360

tgcgccacca cacccggtta attttgtat ttttagtaga gaccaggttt catcatgttg       420

ggcaggatgg tcttgaaccc ctgacctcag gtgatctgcc catctcggcc tctcaaagtg      480

ctgggattac aagtgtgagc catcgcgccc ggcctgcaaa cttttttgta ggtatttctg      540

gtaaacaaat ccttaggtta tctttgctgt ggttgtggtt ggctttagt catgatttca       600

aagtagaaat agctaggcat tatttttga aatatatgac ctatatgtag tcaagaatcc       660

actgaacaga gggaagcaaa ccttttggaa actggctttt gggcagacag taaacgtcca      720

gtttgatgct ggaagcatga acagcttcat caggtaggta ctcctcaact ctgatgagtt      780

tgtcctttca gcctaagggg gtggaaggga gttgtttgag aatagcaaat acgcatgttg      840

attgcgagtg tgtggagaca aaggcagttc ccaccacagt taggtcctgg ccgttgtgtt      900

gtttcctcgc ctgcgatgct ccttgtacgt cctcaccctc ctctcccgcc tctgccttct      960

gctgggtcaa aggtggcctt tttctctcca gccttgaatt gttccctgtt ggcttcccaa     1020

gggcccatct gctggtacag tccacacttc caaagccaag acccgagagg ctttcactg      1080

ccccaagcct ctctcctgtg accttgggat tctgtcttgg cagaatcctt tgtcagcggc     1140

tcttgctctg tccttcctgt ttggccacag ctctttcaat caatgggtat tctagaaccg     1200

caggatgtca gagctggaag ggacgcgata ccggtttaca caaggggaaa ctcctcgagg     1260

ctctgggagg gacggagggt tttggtgaca gagcgagagc taaaattgag gattcctgaa     1320

tccagatctt gcctcccatc agccatcttt ctcccaataa atttttgttt tgtgcaaggc     1380

taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1440

aaatgagcgg c                                                         1451
```

```
<210>  80
<211>  1336
<212>  DNA
<213>  Homo sapien

<400>  80
ccgaggtaca aaggctttga ggtccatgga ctatacttgt ccccatttat catcccaggt       60

ggtgctttga ccctgccata ccctggctat taagataaaa agatttgtgg acattaaaat      120

tatgaatatg tcagtaataa tccagcacac attgaaatat tgacacagat taccataatt      180

tgtgcaacat cttataaaca atgtcatttc catagtagtc taaggcttca ccagcctggc      240

ccactgtatc tagactttag gttcatttta ataattatgc tttccttctc tgtatcattt      300
```

```
gggaagttga taaatatcac ttccttagat accttcattc agtgatatat ctggctttta    360

caattaaatt ggaaaaggta agtttctctt tggtgggttg agagttggac catcaattct    420

aatctacaaa aggaaattca tgatttcact ctgacgccta ggatctagcc aaggctggtc    480

tgcagtatca aatgtccaaa ctcatctact attagccata ttttgtgagt cgtttgtcta    540

aactttgtca aaaatgcctt tgccatgatt ttgttgctat ctggatttca aacatggaca    600

gttaggaaga tgtgcattga agtaggaaaa tttgttcaga ttgctgtatt tattttttac    660

attaaacatg acatgtctc tcaaaaaaaa aaaaaaaaaa ggctgggggt actcggggcc    720

atagcggttc ccggggggaa atgggtaccc gcccacaatc ccacacaaca accgagcacc    780

ccccccccacc cccaaccaca atacatataa cacaaacctt acataaaaaa cactaacaca    840

acaaacacac aacaaaaaaa acacaccaac acacaaatca ccataacaca acaacataca    900

ccacaacaca caacaacccc gcccaccccc caccactcaa caccaccaca caacacaaca    960

cccgcaccga cccccacaca ccccgcccc acccaccaca cgccccacca caccaccacc   1020

cacacacaca cacactccca ccacacacac acacccccccc caacacccac ccacccccac   1080

aacaccaccc caccacacca cgcacccaca ccccacacac cgccaccacc acacccccac   1140

gaccacccac cacacacacc cacacacccc cacacccacc cacacccccca cccctccccca   1200

ccaccacacc acacccaaca tctcactcca ctctctcccc ccaccaccca cactcaacca   1260

catcatcact cccctctaca cacaacaaca tcaccaacac tccacctgca cacacactca   1320

ctccccacac atcacc                                                   1336


<210>  81
<211>  1605
<212>  DNA
<213>  Homo sapien

<400>  81
atttataagg cccttcaaat ttgtggcttc ctttctcata cttctcaagt ataatgaaag     60

ggggagaaaa accccaccat caacacaaaa gaaggctata aagactgtgc accttttaac    120

aagtcaattt gtagtcagtc cctgggcctg tcttttttttt ttttaatttt tgaagctacc    180

tgaggtttag aattccttca gccctagctg cttttattct gcttttattt taaacaaaaa    240

gagggggagg atctgaagga aactagtttt ctgtacaaag gctttgaggt ccatggacta    300

tacttgtccc atttatcatc ccaggtggtg ctttgaccct gccataccct ggctattaag    360

ataaaaagat ttgtggacat taaaattatg aatatgtcag taataatcca gcacacattg    420

aaatattgac acagattacc ataatttgtg caacatctta taaacaatgt catttccata    480
```

```
gtagtctaag gcttcaccag cctggcccac tgtatctaga ctttaggttc attttaataa        540

ttatgctttc cttctctgta tcatttggga agttgataaa tatcacttcc ttagatacct        600

tcattcagtg atatatctgg cttttacaat taaattggaa aaggtaagtt tctctttggt        660

gggttgagag ttggaccatc aattctaatc tacaaaagga aattcatgat ttcactctga        720

cgcctaggat ctagccaagg ctggtctgca gtatcagatg tccaaactca tctactatta        780

gccatatttt gtgagtcgtt tgtctaaact ttgtcaaaaa tgcctttgcc atgattttgt        840

tgctatctgg atttcaaaca tggacagtta ggaagatgtg cattgaagta ggaaaatttt        900

gttcagattt gctgttattt attttttaaa ttaaaaatgg aaatgtaaaa aaaaaaaaa        960

aaaaaaaaag gctggggggta ctcggggcca tagcggttcc cgggggaaa tgggtacccg       1020

cccacaatcc cacacaacaa ccgagcaccc ccccccaccc ccaaccacaa tacatataac       1080

acaaacctta cataaaaaac actaacacaa caaacacaca acaaaaaaaa cacaccaaca       1140

cacaaatcac cataacacaa caacatacac cacaacacac aacaacccccg cccaccccccc     1200

accactcaac accaccacac aacacaacac ccgcaccgac ccccacacac ccccgcccca       1260

cccaccacac gccccaccac accaccaccc acacacacac acactcccac cacacacaca       1320

caccccccccc aacacccacc caccccccaca acaccacccc accacaccac gcacccacac      1380

cccacacacc gccaccacca caccccccacg accacccacc acacacaccc acacacccccc     1440

acacccaccc acacccccac ccctccccac caccacacca cacccaacat ctcactccac       1500

tctctcccccc caccacccac actcaaccac atcatcactc ccctctacac acaacaacat      1560

caccaacact ccacctgcac acacactcac tccccacaca tcacc                      1605
```

<210> 82
<211> 952
<212> DNA
<213> Homo sapien

<400> 82

```
tatatatagg cgcatgggct aaatgatcat gctcgagcgg cgcagtgtga tggatcgtgg         60

tcgcggcgag gtaccaggtg aagtgattgg cctgcagtta gggctgtgtt gtgcaaaaat        120

cacttgtttt ggggtgttag aaccacattt aggcgagaag atcacttttg gggagcttgg        180

gaactgaggc aggccgcagg tgcagcagag gcatgagctt gcccgggccc gccctcttgt        240

ctatgctcat ggagtgaagg gggggccagc ggaatggccc aaacaactga tttgttttttc       300

tttttttaaa tcttttttcag acaaatacca ttgtgtttaa gcgaaatgtg tgtataatgc       360

caaatcactg taccccacaa ccctgcacac ctctacactg gactgtaatt tcttgttcct        420
```

```
agtttgtctt gctagactgt aagctccgtg agagcaggga ccgtgtctgc ttgttgagtg      480

ggctttcccc tgtgcctgcc agcatgcctg gcatctagca ggtcttctgt aaagatggga      540

tgagtttgta aaccctccag cctcaggagt ggctccatcc tctgaggctc tggggccctc      600

tggcaggcta gtcatttttc tgccatgtac gtacaatgct ttattttcat gttgtatttt      660

cctttctagc cagtaagcaa agctcctact ggagcaagtt tctttgtggt gttatctctg      720

tatcctttca tcagggccag gccagagtaa gtaggtgctt cgaaggtgtt tggtaatgaa      780

tgactttggt accccgccca gtctggctca ctgtctgcgg ttgtctaatc tagatgaagc      840

ccgattcgaa ggggggattt ccggagtgct tggggttgga aaaatctctt attgccgggt      900

actcattggg tcgggcgggg gcgagtgggg actgctggtc ggggatgtcg cc             952
```

<210>   83
<211>   1933
<212>   DNA
<213>   Homo sapien

<400>   83
```
caccctttt gatagcatgt tatgaggctc accaaggtct atcctctggc agtatccctg       60

gcctgttctc cccatctccc ctgccctctg ctcaccagtt ccctaaatgt atcttgatct      120

cactagccct acagactgtg cacagagctg tttctacctc cagtgacatg cttccgccca      180

ggcttctccc cctcccgcct caatcttccc ctcaccaact taaggtctta ggggcccttc      240

taggaggcag tccccaactt ccagagccag ggtataggct acttctatgt gtcccatggt      300

actgccacag aagagtctca gctctctcca ggattcagtt ctaaggtcag tgcctaagat      360

aaaaatggag tgtaattaaa attcctctta gaaatctaag gaaggtgccc tattgaagac      420

caacatcttg aggtcccatg tagtcatttc ttgcccatgt gggaacacat tactgtttgg      480

ttgagtacca ggtgaagtga ttggcctgca gttagggctg tgttgtgcaa aaatcacttg      540

ttttggggtg ttagaaccac atttaggcga gaagatcact tttggggagc ttgggaactg      600

aggcaggccg caggtgcagc agaggcatga gcttgcccgg gcccgccctc ttgtctatgc      660

tcatggagtg aaggaggggc cagcggaatg gcccaaacaa ctgatttgtt tttctttttt      720

taaatctttt tcagacaaat accattgtgt ttaagcgaaa tgtgtgtata atgccaaatc      780

actgtacccc acaaccctgc acacctctac actggactgt aatttcttgt tcctagtttg      840

tcttgctaga ctgtaagctc cgtgagagca gggaccgtgt ctgcttgttg agtgggcttt      900

cccctgtgcc tgccagcatg cctggcatct agcaggtctt ctgtaaagat gggatgagtt      960

tgtaaaccct ccagcctcag gagtggctcc atcctctgag gctctggggc cctctggcag     1020
```

```
gctagtcatt tttctgccat gtacgtacaa tgctttattt tcatgttgta ttttcctttc    1080

tagccagtaa gcaagctcct aatgagcaag tttctttgtg gtgttatctc tgtatccttt    1140

catcaggcca gcccagagta agtagtgctt cgaaagtgtt tggtaaatga atgaattatg    1200

gtaacccagc ccagttctgg catcactgtc tgcaggttag tctaattcca gatgaaagcc    1260

ccagattcga aaaagggaag attattcaga agtgcatatg gttgtataag aaaaaaaaat    1320

ctcattaaat agacctgagt aaacttcaaa ttttgatgat ctggccatgt cggagctgaa    1380

gcttaccagc tctctaaagc atttgctagg gaatcatgca gatggtccaa atatttttt    1440

agaaaagcat tcatctgtcc cgggatagaa gtagaggaag ctggtaggca ggcgctagac    1500

cctaaagaag gactgctgag ccagttctta agccagtggc tcttttgcct aaagcagcat    1560

tcctcaaact tctcactcga agcattaagt tacggtgaga tgctaacaca cgctttagac    1620

ttaagtcaaa atttactgtg aagccacagc aaaccatggc ttcacagatg aattagttgc    1680

tacacaaata agttcgatac ataagtacag taattgcttt taaaccttat aataagcagt    1740

aaattagaag ttaaaccatg tttttctttt acgaactgaa agaagagaat gcttttgata    1800

ctgagaatcg cacactgtgt ccaggcagat tgttcttgca taaccagacc cacaataaat    1860

atctacaact tttcttacat gtttataaaa taaatcttag aaaaaaaaaa aaaaaaaaa    1920

aaaaagggcg gcc                                                        1933
```

```
<210>   84
<211>   376
<212>   DNA
<213>   Homo sapien

<400>   84
gcgtggtcgc agccgaggta ctccactcca aatttcccaa gaaattcaga agaattgtga        60

acaagttgct ggtttcacaa tactgcaagg acactgcaag gttattccaa gttcctcagc       120

aagtgtttac acattgggcc aaggacagat ttttcctgga gaaggatttt accactgcca       180

ccatcttgaa attcttcatc gtttttggaac acagagccat agattttcat ttctgcactc      240

agctctgttc tgagaccggg gccatagggg ttcttggaga gacagggcag atggaagaag       300

tggaaggcat ctgccacact gtagagtgcc tttaagccac ccccattgcc tgagttgttt       360

tccttttta caaatg                                                       376
```

```
<210>   85
<211>   1325
<212>   DNA
<213>   Homo sapien
```

```
<400>  85
ggccgcactt  tttttttttt  ttttttttttc  agagacggag  agatttattt  taaggaattg      60

tgtggctggc  aagtccgaaa  tccataggggc  aggctggcag  gctgaaaagt  taagtgaggg     120

ttaatgccat  agaccggagt  cctgagtttg  aattccacag  ggcaacaggc  tggaaactca     180

gatagggttt  ctatgttgta  gtctcaagga  gaattccatc  ttctttagga  aacctcaatc     240

tttgttctta  atgccttcaa  ctgattggac  agggcccacc  cgtagtatgg  tgggtaacct     300

gctttactga  tttaagcgtt  aatctcatct  aaaaaaatac  ctttaccacc  atgtccagac     360

tagtgtttga  ccaaacaatg  agttggcata  ctccacgcaa  ggtgacgtgc  aaaatgaacc     420

atcacagcac  ttcttgtgtc  ttcatgtgcc  cacctggtac  atgggggtac  aactatctgg     480

cccaaagggg  tggtcaatcc  tgagtggata  aataatagga  atttagtcct  atgatgtgtc     540

ttgattttttc  ttttctttttc  ttaccttcct  attttttatta  acccgggtct  tctgcgccca     600

aagactcagc  ctcattcagg  accatattat  gttcatactt  ctgctgcgtc  caaggagtgt     660

tgacgaaaaa  gtggggcctt  ggaggggtag  aggccaaggg  acagtttccc  ctctgccctt     720

tgaagttcac  gatcttccat  gcaacaaat  tgttttctgt  gaaaagcagg  aaatgaataa     780

caacagcgta  ggtgcgttgg  ctatgtccgg  tggcatttct  tcagaatttt  cattaatgac     840

acctgatttt  ggaggcattg  tatattttta  aatacatcca  gatgttgttt  cagttgcttc     900

ctctttggtt  cttttttgctt  ttcgttgttg  agcgtcactt  aaattcgtgt  catttcatgt     960

tggtacaggt  actccacttc  aaatttccca  agaaattcag  aagaattgtg  aacaagttgc    1020

tggtttcaca  atactgcaag  acactgcaag  ttattccaag  ttcctcagca  agtgtttaca    1080

cattgggcca  aggacagatt  tttcctggag  aaggatttta  ccactgccac  catcttgaaa    1140

ttcttcatcg  ttttggaaca  cagagccata  gatttttcatt  tctgcactca  gctctgttct    1200

gagaccgggg  ccatagggggt  tcttggagag  acagggcaga  tggaagaagt  ggaaggcatc    1260

tgccacactg  tagagtgcct  ttaagccacc  cccattgcct  gagttgtttt  ccttttttac    1320

aaatg                                                                    1325


<210>  86
<211>  744
<212>  DNA
<213>  Homo sapien

<400>  86
gcgtggtcgc  ggcgaggtac  ttttaactta  aaaaaatgaa  catctttgta  gagaatttttc      60

tggggaacat  ggtgttcaat  gaacaagcac  aagcattgga  aatgctaaaa  ttcagttttg     120
```

```
cctcaagatt ggaagtttat tttctgactc attcatgaaa gtcattcctt aattggaggc     180

ccaccattca attattcatc tattaattcc ttgatccttc atttatccat tctgcaaact     240

tttcttgagc accagcacgg gtggccattt gtggacttct cttcattcct atgtgttttc     300

ttatcaaagt gatccactct cgaaaggctc ctttccagtc tgtggttggg ttcaagtcat     360

gccagggcca gggggcccat ctcctcgttt agctctaggc aaaatccagg ggatctgcag     420

tggggagcgg gggcaggaag ctggagggaa ggcctgtgaa gggtagggat gtggaaagac     480

aaggtgacag aaggacccaa taggaccttt ctatatctct ggcttagcat tttctacatc     540

atattgtaat cgtcttattt gctagttttc ttccttactg tgagtgacta acagtcatct     600

ttatcccaag tgcctggtac ataataagtg atcaataaat gttgattgac taaatgtaaa     660

aaaaaaaaaa aaaaaagggc tgggggaatc agggccaagg cttgtccggg gtgaaattgt     720

ttcccccac aaaaaaaaaa aaac                                            744
```

```
<210>  87
<211>  1833
<212>  DNA
<213>  Homo sapien

<400>  87
tgctccagga aagttctgtt actccaggga ctctctcttt tcctgataac atggccagca      60

agaaagtaat tacagtgttt ggagcaacag gggaagctgg tggcagactc cgccaagcac     120

ctgggtctga agcacgtggt gtacagcggc ctggagaacg tcaagcgact gacggatggc     180

aagctggagg tgccgcactt tgacagcaag ggcgaggtgg aggagtactt ctggtccatt     240

ggcatcccca tgaccagtgt ccgcgtggcg cctactttg aaaactttct cgcggcgtgg     300

cggcccgtga aagcctctga tggagattac tacaccttgg ctgtaccgat gggagatgta     360

ccaatggatg gtatctctgt tgctgatatt ggagcagccg tctctagcat ttttaattct     420

ccagaggaat ttttaggcaa ggccgtgggg ctcagtgcag aagcactaac aatacagcaa     480

tatgctgatg ttttgtccaa ggctttgggg aaagaagtcc gagatgcaaa gattacccg      540

gaagctttcg agaagctggg attccctgca gcaaaggaaa tagccaatat gtgtcgtttc     600

tatgaaatga gccagaccg agatgtcaat ctcacccacc aactaaatcc caaagtcaaa     660

agcttcagcc agtttatctc agagaaccag ggagccttca agggcatgta gaaaatcagc     720

tgttcagata ggcctctgca ccacacagcc tctttcctct ctgatccttt tcctctttac     780

ggcacaacat tcatgttgac agaacatgct ggaatgcaat tgtttgcaac accgaaggat     840

ttcctgcggt cgcctcttca gtaggaagca ctgcattggt gataggacac ggtaatttga     900
```

```
ttcacattta acttgctagt tagtgataag ggtggtacaa ctgtttggta aaatgagaag      960

cctcggaact tggagcttct ctcctaccac taatgggagg gcagattata ctgggatttc     1020

tcctgggtga gtaatttcaa gccctaatgc tgaaattccc ctaggcagct ccagttttct     1080

caactgcatt gcaaaattcc cagtgaactt ttaagtactt ttaacttaaa aaaatgaaca     1140

tctttgtaga gaattttctg gggaacatgg tgttcaatga acaagcacaa gcattggaaa     1200

tgctaaaatt cagttttgcc tcaagattgg aagtttattt tctgactcat tcatgaagtc     1260

atctattgag ccaccattca attattcatc tattaattcc ttgatccttc atttatccat     1320

tctgcaaact tttcttgagc accagcacgg gtggccattt gtggacttct cttcattcct     1380

atgtgttttc ttatcaaagt gatccactct cgaaaggctc ctttccagtc tgtggttggg     1440

ttcaagtcat gccagggcca gggggcccat ctcctcgttt agctctaggc aaaatccagg     1500

ggatctgcag tggggagcgg gggcaggaag ctggagggaa ggcctgtgaa gggtagggat     1560

gtggaaagac aaggtgacag aaggacccaa taggaccttt ctatatctct ggcttagcat     1620

tttctacatc atattgtaat cgtcttattt gctagttttc ttccttactg tgagtgacta     1680

acagtcatct ttatcccagt gcctggtaca taataagtga tcaataaatg ttgattgact     1740

aaatgtaaaa aaaaaaaaa aaaagggct ggggggaatca gggccaaggc ttgtccgggg     1800

tgaaattgtt tcccccaca aaaaaaaaa aac                                    1833
```

```
<210>   88
<211>   251
<212>   DNA
<213>   Homo sapien

<400>   88
ttaaaaatgt aaaaaaatga aaaaaaaagt tttgagcatt atttgcatca ttgggataca       60

tatgtcactt cacaagatgt tcaatttgaa ggaaatacca ctcattctct atgtcctgtt      120

gtctgtagtg tgcttcagtt ttctcatatt gagttgacct aaatcctgga ttcatgacaa      180

gaaaggagta agtactacta ttcattgttc tatttgttta taatctgtat tataaaattg      240

cacataatta a                                                           251
```

```
<210>   89
<211>   458
<212>   DNA
<213>   Homo sapien

<220>
<221>   misc_feature
<222>   (327)..(327)
<223>   a, c, g or t
```

```
<220>
<221>  misc_feature
<222>  (435)..(457)
<223>  a, c, g or t


<400>  89
ttgatattta tttagaaaac aagggaaagc ttttaattgt gtgcaatttt gtaagacaga       60

ttataaacaa atagaacaat gaatagtggg acttactcct ttcttgtcat gaatccagga      120

tttaggtcaa ctcaatatga aaaactgaag cacactacag acaacaggac atagagaatg      180

agtggtattt ccttcaaatt gaacatcttg tgaagtgaca tatgtatccc aatgatgcaa      240

ataatgctcc actctgtcgc tcaggctgga gtgcagtggc gcaattagaa ctcactgcag      300

ccctaaccct cttggcttaa acaatcnctc caccttagcc ctctgagtag ctagcactac      360

aggcacacgc caccacaccc agctaacttt tttgaatttt tggagacagg gttcacctta      420

tttttctcg tgccnnnnnn nnnnnnnnnn nnnnnnnc                               458


<210>  90
<211>  251
<212>  DNA
<213>  Homo sapien

<400>  90
tggtcgcggc gaggtacaaa aacatggcag taggacaact ttgagctcaa cgcgcgcacc       60

tccccaggac ctctcacacc cacctgaccc atccaagggc cacaccaccc cgacagatac      120

tcccaccacc tttagaaaag agtcacccaa tctggagaaa ggtgtggagg ttacatcttt      180

agaaagaaat catttttaaat acatgaacat tagagaacac agtaaccgtg cttccaccca      240

gcacggggag g                                                          251


<210>  91
<211>  2399
<212>  DNA
<213>  Homo sapien

<400>  91
ggccgcatct ttttattttt ttttttttc ttacaaatgt gagtttattt tgcattctaa       60

cccaagcaca gatcccacat acagacttct cgtccgcact atggtacagt aacaagtgca      120

aaatatgctt tatttcaggt acaaaaacat ggcagtagga caactttgag ctcaacgccc      180

acctccccag gacctctcac acccacctga cccatccaag ggccacacca ccccgacaga      240

tactcccacc acctttagaa aagagtcacc caatctggag aaaggtgtgg aggttacatc      300
```

```
tttagaaaga aatcatttta aatacatgaa cattagagaa cacagtaacc gtgcttccac   360

ccagcacggg gaggctgcag agaggcaccc caaacagtcc ccttctcttc tgtggttaac   420

caagcaagcc ccgcaaagct tttcccagca gagcacaccc agccagcaat gaggcctcag   480

gacagagcca gcactgtgac aaaagaactt gtcccaccta tctgagagca tgagatctgc   540

aagtgggatc cggactggac accaggaagc tcaacctggc tcgggccatc agtagctgtg   600

ggaccctggc ccccatctaa cctcccagtt gacttcctga aaactgggct agtggggggcc   660

tccccattgc tttagggagg atcgagtgag aagctgacca aatgcgcaga acacaaagcc   720

tagcctgtta gccccagctg ctatcactac tgttactcac gaagaaagga actgcagtgg   780

ctgctgtctg cccctggagt gaagacacca ggggtgcaca gaggctggac aagccacagg   840

gggctggatg gccacagccg gacctcggac ccatctcccg tgggactcct tccatttgag   900

gctgtccatc ctccaatggc agatgcagaa ttctcaggcc caggataccc ttatggaggg   960

ccgggggggcg gcccctcaaa accaccaagc tgaggccact gtgagcagtc ccctttgtag  1020

caggaagagc agctggacac atgggaagag gcttgcaggc tccagagaag ccaaaaggtc  1080

ctcagtcccc aaggtactag gtggaggtga gatcaggctg cccctcccag gacaagagtg  1140

tgagctggcc aggaggccac tgctgcccac cactgctcaa agtccttctc cacgcatcaa  1200

ccctgaggga cctggccagg ggatgcagac caaaggccca gcgggtcccc aggaacagga  1260

agcaggcggc aagaaggaaa gcaaagggct ctgcattccc accacgaggc ggggtggact  1320

ctgcaggagc cagctgaagc accagaacct tccaaggggg gctcgccagc cacacaggac  1380

acgagatgcg tgataggcag ggttaatgca gaaaccgctc atctgaatgc ttcccctgct  1440

tccaagcgca aaccaagtca ttttattctt ttaaaaaagc ccttactgtc tgaggctttc  1500

tttaaataat ccaacaggga tggaggtaat ggaggtctgg ctcagtagtc agcagacttt  1560

ttctgtaacg ggctagacgg taaatatttt gggctttcag agccaagagg caaaatcaat  1620

attatgttgg cgtaagagca aacaaatttc cacaattttt aaattgataa aatccaaaat  1680

acaataattg agtacatatt tttggtaaat acatgtctac taaaaataag aattttttt  1740

tttgtgatgg gggagaaaac acttcattgg gttcaaagat aatattccct atcataaatc  1800

agtggcataa acagccagtg ggccaggtgg gcccaccgta tgctagctga caagggcagt  1860

cacacaccgg taagtgctga tacaggatga ggggtgcgga gctgaggatg ttgttctctt  1920

tgatgaaggc ctgaaaactt cccctggccc ctgctgccca cctcagggct cctcaggacg  1980

aagggcatga ggacaggttc ccactctggc ccttcgctgg gggacatggt ttggtttccc  2040

catcgccagg ctggccagct ggggcccaag cactgaccgt ccttccccac cttatcccat  2100
```

```
cagctgccct gcacaggagc agaaaaccca tgcctcagag ctacttccta aggacactgc   2160

ctctagaagg ccctaaagtg gcagagccgg ggatggcagg tgcagccctg gccactagca   2220

cagcagttgc cctcagatct gttagctgtg acccatagat tgggggaggg aggaaagcca   2280

ggaggagctt ttgcagaaag gtctggaagc taagtggggg tttcaggagc tctcagggtg   2340

cccctgggca ggtcccaagg aggcctgggg tgcctgacca gcacctcact ggccctcaa    2399
```

```
<210>  92
<211>  595
<212>  DNA
<213>  Homo sapien

<400>  92
gtgatcgact cactatagca tgttatctag atgcatgctt cgagcggcgc ctagtgatgg    60

ataggtcgcg gcgaggtaca aatcattaag gcaaatctac aaaggaccag taaggcactg   120

gggcacagca gctgactgca ggaagtctat gtaacttccg gtagtaaaac agcctttaat   180

gcagacatag gtgtgaaaaa ttcagtgtta tgtttttttt tcagtgtcaa cctgcaccta   240

aagcacaaaa ggtcacttca agtcacttca atgtaataaa caattcccat tcatcacatt   300

accagtgaaa agagaaataa ttcactgggc tagaaggaat tagaagcagg aataaagaaa   360

atgccctttg gtttacactt actaaagaga atgtctttaa ctctccaagg aataccattc   420

cgctttgtga aattatacca attaattagg actcctctat attcccatta atgtcggatc   480

attacataac ttcaatagaa taaacacttt tttcccactt tgctataata atagctaggg   540

atacctcaac aatataataa tggtttaaat tatgaccatt tctctttggc cttgt        595
```

```
<210>  93
<211>  1457
<212>  DNA
<213>  Homo sapien

<400>  93
cttatcctag agaataactc tgtatgaata aaattgctta attgagtctc ttactaaata    60

agtaactagt gccatgcttt tgtgagctct ggtatggcc catattactt tgttttttttt   120

tttttattg ttgttttgtg atagtcttgc tctgtcgccc aggctgcagt gcagtggcac    180

aatctcagct cactgcaacc tctgcctcct gggttcaagc aattctcctg tctcagcctc    240

ctgggtagct gggactacag gtgcatgcca ccatgcctgg ctaacttttg tattttttagt   300

agagacaggg tttcaccacg ttggtcaggc tggtctcgaa ttcctaacct caggtgatcc    360

acctgccttg gcctcccaaa gtgctgagat tacaggcgtg agccaccgcg cctggcctgt   420
```

```
ttgttttttt aacatgattt ttctctaagc ttaaatacca caaggccaaa gagaaatggt      480

cataatttaa accattatta tattgttgag gtatccctag ctattattat agcaaagtgg      540

gaaaaaagtg tttattctat tgaagttatg taatgatccg acattaatgg aatatagag       600

gagtcctaat taattggtat aatttcacaa agcggaatgg tattccttgg agagttaaag      660

acattctctt tagtaagtgt aaaccaaagg gcattttctt tattcctgct tctaattcct      720

tctagcccag tgaattattt ctcttttcac tggtaatgtg atgaatggga attgtttatt      780

acattgaagt gacttgaagt gacctttgt  gctttaggtg caggttgaca ctgaaaaaaa      840

aacaaaacac tgaatttttc acacctatgt ctgcattaaa ggctgtttta ctaccggaag      900

ttacatagac ttcctgcagt cagctgctgt gccccagtgc cttactggtc ctttgtagat      960

ttgccttaat gatttgtaca aatgactggg aggcggggat gctgcctgtg tcctggtgaa     1020

ccttaatgaa ggggccgtct taggcacagt gcaaacaag  catttgtcct gtactgttag     1080

agccaaaatt gtgatgagca atactgataa ttgtccagtt tatgtcatct ttcccagatt     1140

ttaaaatctg ttctagatat cttagcttg  aaccactttt gattgtgaaa tgtattaggt     1200

gttgtcccat tattactgta aaatgaagtt ttgaatcttc ttgttaataa actgtggatt     1260

tcccctctca atttcttaaa caacaacaaa aaaatgcttg aagattgtct ttgagtgtaa     1320

gatctgcctt ttcagaaagg gagtgttagt ttgtaatgtt aaaaaataaa gacctcattc     1380

aataaaagtt gaagtcatct tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1440

aaaaaaaaaa actcggc                                                    1457


<210>  94
<211>  936
<212>  DNA
<213>  Homo sapien

<400>  94
tatcactata gcgatgtgct ctagatcatg ctcgagcggc gcagtgtgat ggattgctgg       60

ctgccggcga ggtacacaac gccttctaat ttgatcttca tgactgtaga cgggtgcccc      120

attcccctg  aaacaacggt tgcgaggttt gcgcattact gcttcgcctg tgcatgacta      180

tcttgctgta actactagcg atgatcttgt atcgaattgt atctcagcca cttatcctct      240

cagtatagta caattaccat tgcatacttg tatacctcat ggagaaggga gttctctcca      300

gtcccaaccc atgaatgtgt tatcgattcg cgcattcgtt cgctcgcaac ctcagataaa      360

cactcttcat actttatcac taccttccat cttagtcaaa gctcaagaca aaaattaaac      420

aaaatgacac ctagccattc acctattaca accatcgacg tataagacac accattcgac      480
```

```
gtgaggaaat gacacacgta tttccatcaa cgagagtgct ggatgggagg gcaggacaca      540

gactggaagt cagcttcagc gtatacccac ttactcacaa gggctgacca tgatggccct      600

gctcttgcat gaggactcac atggacagcc agtggcactg atgcctgcag gactgcatgt      660

gccgacaaga tgatgcacat tttaatattc aaaatgtaaa caaagtatcc acaaatagtc      720

caaaaaagcc aaagaatggc tttacttaac aaattttaa attgccctta aaagtgactt       780

tttggcataa tgcctttctt aaaaaaagaa ctctcacaaa aaaccatttt ttttaaccca      840

aaaacaatgc ctagatcact tcagaactga aatcctcaga tgaaacaggt gaacacttct      900

gtgactgcta cctctcagaa ggcttgggcg tatcat                               936


<210>   95
<211>   480
<212>   DNA
<213>   Homo sapien

<400>   95
tctcgagccg cgccagagtg atggatgcgg ccgccgggca ggtacttatt aagcagagca       60

ctttgtaaga ttcagaactg actcctgatt atcttaagcc attaaaagac tcaagttttg      120

catggacttt ttgtcctctt tggcccctga gtgtgcccca tctctgccca gcactaataa      180

cacgttggaa gagcaaagga tttcccacca gcgtgccaga tgatttatat aggcagggac      240

cttcattgaa aagaagggaa gggacactgt cttaaatgca catttaaggt tctttctgat      300

tattggcaat ctctatgaac caacacttaa tccatgggct aacagagaga ttttttttt       360

tttaatgtga agaggattaa agaataaaga aaaacaaaa aagtctttat tctaaaataa       420

gaaatcagcc ccatctgtgg cacagttctc atgcagaata ttgcacccag tgtgaactag      480


<210>   96
<211>   1111
<212>   DNA
<213>   Homo sapien

<400>   96
cgtccaatca gaggctctgt atttataaat aacccgtgtg ggattatgct ctccagtgaa       60

tataactgga gcctaaattc acaaccttaa gatctgacag ccagatgtgg aaggtctaca      120

aagagctctg ctaataagta atatgtttgc aaagtgctct gctaagtaag gtacttatta      180

agcagagcac tttgtaagat tcagaactga ctcctgatta tcttaagcca ttaaaagact      240

caagttttgc atggactttt tgtcctcttt ggcccctgag tgtgccccat ctctgcccag      300

cactaataac acgttggaag agcaaaggat ttcccaccag cgtgccagat gatttatata      360

ggcagggacc ttcattgaaa agaagggaag ggacactgtc ttaaatgcac atttaaggtt      420
```

```
ctttctgatt attggcaatc tctatgaacc aacacttaat ccatgggcta acagagagat    480

tttttttttt taatgtgaag aggattaaag aataaagaaa aacaaaaaa gtcttatact    540

aaaataagaa atcagcccca tcttggcaca gttctcatgc agaatattgc acccagtgtg    600

aactaacgct agaagcttca aactgtataa atttaaatgt atttgcatat tataaaaata    660

aagataaaca tatacatatt ttacactagt tatggaacag caatgaacgt cagtcgatcc    720

ctctttcaca tttaacagaa ctgaaatctg agtgctctaa atactgccac ctgtactgta    780

actatggctt atatgtgcac ggaaaacaaa atccctgaga agccattcga cttttttttt    840

ttttttttct tttcttcaag tagcgcgctc cttggaggat cacagttctg aggttcaggt    900

tgtaaaacat ttgctccatg ttctcgtcca tgcttccccc caccaccccc tccccacctc    960

ttccccagtc atccaaaaag caccctgcaa gcacgcgttg tcactcaagt tcacagaaca    1020

cgctgggggtg agtgcagagg gtctgccagg tgcaaaagat ggtccaggtg ttcagatgct    1080

ctcttttctc catggaaatt ccacagccac a    1111
```

```
<210>    97
<211>    395
<212>    DNA
<213>    Homo sapien

<400>    97
gcgtggtcgc ggcgaggtac caccagctac ttcagagtga agaaagaaag tgtctttcgc     60

cactggttct taaggagtgg atctccggtc cacatctccc aatgctgctt agcccaggaa    120

atgaagacag ctgacaacac agaggaacat taacgaaaag aacaaacccc aaacttgaaa    180

tgcataactg ggactgctgg aatgggccaa ggcataccac ggcgggtcac tgtcaccagg    240

agggcgcctg tgttttagaa gggagtggcc aacaccgtct ggccaacctg gaagggagcc    300

aacgtgacag ctaagaacac tagacaagca tcctagcctt ctcacccatc gatctcagtg    360

tgatcttgcc acagagccac tggcaagcca ttcgg    395
```

```
<210>    98
<211>    3813
<212>    DNA
<213>    Homo sapien

<400>    98
tttttttttt gcatacagaa ttattttatt taacttaaac catgtagtac tttactagaa     60

aaaagcagag taagagaaac taacgttgcc ttagcttcag ccattcaaaa tagacagttt    120

ctttttttcca ttatgtaaag aatccagagt atatcgcaat aacaggaata aattcttaca    180
```

```
acagaatata caaaaacatt ttgaaatttt tttcatctac tgattttta tataaacagg      240

attttttagg aataatttat acacagaaag tcattttatg taacaaattg gccatgttat      300

tacctttttt tttcttactt aaaaaaaatt tttttttaac aagaaaactc agaaaatgca      360

ttatttgcgg tgcatccatt ccatcccgcc ttctggtttg attttttta tcccagacaa      420

agggataccc agaggtagac aaactctggc aaacctctca cctcaacctc actggcttag      480

aaagcagaca ggtgttttca ccgggcgtct cttccaccgg tggatgtgtg tgtgcaacgc      540

caaacatcca aatgaaaagt tgaaaacaaa acccaaatag tttccagatc tttctcctat      600

gtagcgcaaa aaccccaggt gtttcccatg atagagatat tgtggagttg gggagacatg      660

gccaacaatc cactggagtt agaggaagtg gagtcaactt taaaaccaat ttttgtgtat      720

gttatagttt ttattaaaaa ttcttttctg tattggaaat acgtatcttc ggggttctgc      780

cttaaataaa atagggtctc ttctgtgttc taacaaagca gtaatcaatc atgatacgag      840

gcatgtaagc aaatggcctg tgtgccccat agctgtcatc gtttatgtga tcactgtgta      900

tgctgtaatc atcatgaaaa ccattggctg tgcagtcaag tcttcccatg tccatggcac      960

tgtgctgaca atgacggcag ccagaccaat caagccagat gccgaacggt gccatgcact     1020

gctgggctcc aacacctcgg ctgtttccat ggccaatgag gttctttcca tctgtaaagt     1080

agctacactc caaagggaaa tgaccagtga aaaatgatcc ccgctcccaa ccagagggtt     1140

ctgggaagac ccagatactg aagatacaga actacttgtt aaatcatcat cattcctttg     1200

ttataaacta gggccaaaaa gcatggggggg aaaagagggt gaaccacgga tggggtcagg     1260

gagaaatcct tttttggcat attgtaaagc tagctagtaa acaggtgtcc taaaaaaaaa     1320

aaaaaaatgg atcacaaaca cacatttgca cacacagaga aaaaaaaagt gtctttaaat     1380

tattttcggc aattataaac tacaaacatt ttataaaatt attctgttct tacaaaaatg     1440

caatgaaaca tttaattagt tcttgtaaac cagatcttcg tcaactgact acccgtaatc     1500

tactggactt aagagcccta ttgaaacgc taatgagtga ctagttaaaa caatgttgac     1560

cagaaagatg cggacacaca cacgtgggac ataaaaatga gtgatcgtta tgttctcgca     1620

gaaacaaaac gctaaagtca tgccccagaa ctgacaactg acgagtgcga tgtagtttgt     1680

gttcttgaac aattcgcctt aactccgaga tcagtttcca gagtaggatg ttaggtttct     1740

ttgttgaaac caaatgccca cggatgactg ctgagcctcg atgtggtctg atagcttcaa     1800

gaacaatcaa gttcaaaacc ttgcccacat tccttccaag ccctgcaccc tgctgctcgt     1860

aactcttctc tgtgccagga tccctgtgac aatggttctg tacccaccac ccggtcattc     1920

caccatcaag gagcactcac ttctccaaat gacgcaacca gtcatctaag atgaaggcca     1980
```

```
aaaatgaaac cctctgacct gtccaaggtc tgtatcttca gcatctctgg caacagaggt    2040

tcagtctaaa taacatcctc tcttgaagtt ctcatttgta ccaccagcta cttcagagtg    2100

aagaaagaaa gtgtctttcg ccactggttc ttaaggagtg gatctctggt ccacatctcc    2160

caatgctgct tagcccagga aatgaagaca gctgacaaca cagaggaaca ttaacgaaaa    2220

gaacaaaccc caaacttgaa atgcataact gggactgctg gaatgggcca aggcatacca    2280

cggcaggtca ctgtcaccag gagggcgcct gtgttttaga agggagtggc caacaccgtc    2340

tggccaccct ggaaggagcc aacgtgacag ctaagaacac tagacaagca tcctagcctt    2400

ctcacccatc gatctcagtg tgatcttgcc acagagccac tggcaagcca ttcggctgcc    2460

agcctgcaga ggtggactgc tgtgggaaaa gcttcagtgg aacaaactgg cctagaatct    2520

ggtgccagag aatagttggc tcataaatct tttatcccaa agcaccccaa tgtgcaccga    2580

gcatctcgcc atttggtagt tccacagtga ctgctcttct attttacgaa gccactttc    2640

gtaccattga aatgtgactc cgcatcttaa gaaacaggcc aggagaggcc aggtcggcca    2700

cgaacacggt cttccatctt ccaaggagga ggctcgttcc aaaggtatgt caaacgtcat    2760

gacatcccac gaaggagacc tggggtggtc tgggtcttga tcaagttcaa cagtgtctcc    2820

agtacacacc agctcctgct gcctcaggga agggctgtgt gggagaacgt cttaatgctc    2880

acatcaattc catgatgtgc ctcagtggtt catatgactt caagcagtgt gagctgctgg    2940

cagaaggagg ttgcatggaa aatgccacaa ctcagcttaa gattatttgg aacacacaga    3000

gaaaaatcaa gaggcagaga aatcagcatg aagttaggct agaactgtgg atagatgatg    3060

ccttggtata gtcaaggtgg gtgggttggt ccagtaaaat gactgcacca tcacacaagc    3120

caagttttct cttttattga ggtgtttctg aagcatttgc tatgatgggc actacactgt    3180

tagtgttttc tacttaaaag ctacctacat aaaacaaaaa caaaatgaca tcagtaactc    3240

ggacagttta aacaaaccc ttataaccag ctgaatgatc tgtagaaatc cagttgtgga    3300

aaccggtagg tatgtgcacg agaggagagg ccattattcc aagggtcac ctacagtgtg    3360

gaagaacaaa accctgatcc aacagtattt ctcaatgacc ttaagatccc cggggtcctg    3420

ggagagatgg gtcgcgttcc agcaggaggc tcctgagcgc cttcacttag ctggaattg    3480

ccgaggagcc atccacgctt aggcaaagct gcccgccaca cttcccagcg aaatcatcag    3540

tgcctgtaag agcagctgct ggaagagggg agcgagccgt ctgtcctgtg agcagcagga    3600

ccagggagac ggaggtacag ccctggcggg gggggcgtga cgccacgagc ctcggcgccg    3660

gccactgggc tttccagccg gaaggtttgg tacatctctg tctacccta gggaaggagg    3720
```

tgagggagaa gttgagaggg cagcctggag ggggagggga ctctgctcct gcgtgtgttc   3780

tatcagggac tggctgtgag gtccggagct ctg   3813

<210> 99
<211> 960
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (716)..(716)
<223> a, c, g or t

<400> 99
atgctcgagc cggcgcatat gtgatggatc gcccgggcag gtaccttggg gactgaggac   60

cttttggctt ctctggagcc tgcaagcctc ttcccatgtg tccagctgct cttcctgcta   120

caaaggggac tgctcacagt ggcctcagct tggtggtttt gaggggccgc cccccggccc   180

tccataaggg tatcctgggc ctgagaattc tgcatctgcc attggaggat ggacagcctc   240

aaatggaagg agtcccacgg gagatgggtc cgaggtccgg ctgtggccat ccagccccct   300

gtggcttgtc cagcctctgt gcacccctgg tgtcttcact ccaggggcag acagcagcca   360

ctgcagttcc tttcttcgtg agtaacagta gtgatagcag ctggggctaa caggctaggc   420

tttgtgttct gcgcatttgg tcagcttctc actcgatcct ccctaaagca atggggaggc   480

ccccactagc ccagtttttca ggaagtcaac tgggaggtta gatggggggcc agggtcccac   540

atgctgctga tggcccgagc caggttgagc ttcctggtgt ccagtccgga tccccacttg   600

cagatctcat gctctcagat aggtgggaca agttcttttg tcacagtgct ggcctctgtc   660

ctgaggcctc attgctggct gggtgtgctc atgcgtggga aaaagcttgg gccgtnaact   720

atggccatac ctgttccctg tgtggacatt gttctcccgc tcccatcccc atcccgccgc   780

acccaaccca ccccaacacc cacacccac gcccccaaac gcccacaccc acaacaccac   840

accccccccac ccccacccccc ccacacccac cccaacaccc acccctcgc cccccccca   900

cctccaccca cccaccaacc cacaacacac cacacaccac ccaccaccag caccaccacc   960

<210> 100
<211> 2754
<212> DNA
<213> Homo sapien

<400> 100
gccagaagca gcctcagctt ggcaaggtgt ggagatgact gctgttccct tcgcatttgg   60

ggaaaacagg ctccctcggt agctcgatga tcctcttttg atcttgtgtg acctcctgga   120

```
gagtggatga cgctggtggc cttagctttt ctagacagtg taaattgcac tgggcgatgt    180

ccccagagca gggcaaggtc tctagagcgg gtctcccaca tgactggctt cacacaggca    240

cttccgctcg ggttgcatgc tctgtgtcat cttaccggtc cagggttgca ggtaggaaat    300

gtttgtaccc tcttctgatt gccacctcct tcccatcgcc ccttagggac agggcttgag    360

ggccagtgag gcgctggtca ggcaccccag gcctccttgg gacctgccca ggggcaccct    420

gagagctcct gaaacccca cttagcttcc agacctttct gcaaaagctc ctcctggctt    480

tcctccctcc cccaatctat gggtcacagc taacagatct gagggcaact gctgtgctag    540

tggccagggc tgcacctgcc atccccggct ctgccacttt agggccttct agaggcagtg    600

tccttaggaa gtagctctga ggcatgggtt ttctgctcct gtgcagggca gctgatggga    660

taaggtgggg aaggacggtc agtgcttggg ccccagctgg ccagcctggc gatggggaaa    720

ccaaaccatg tcccccagcg aagggccaga gtgggaacct gtcctcatgc ccttcgtcct    780

gaggagccct gaggtgggca gcaggggcca ggggaagttt tcaggccttc atcaaagaga    840

acaacatcct cagctccgca cccctcatcc tgtatcagca cttaccggtg tgtgactgcc    900

cttgtcagct agcatacggt gggcccacct ggcccactgg ctgtttatgc cactgattta    960

tgatagggaa tattatcttt gaacccaatg aagtgttttc tcccccatca caaaaaaaaa   1020

aattcttatt tttagtagac atgtatttac caaaaatatg tactcaatta ttgtattttg   1080

gattttatca atttaaaaat tgtggaaatt gtttgctct tacgccaaca taatattgat    1140

tttgcctctt ggctctgaaa gcccaaaata tttaccgtct agcccgttac agaaaaagtc   1200

tgctgactac tgagccagac ctccattacc tccatccctg ttggattatt taaagaaagc   1260

ctcagacagt aagggctttt ttaaaagaat aaaatgactt ggtttgcgct tggaagcagg   1320

ggaagcattc agatgagcgg tttctgcatt aaccctgcct atcacgcatc tcgtgtcctg   1380

tgtggctggc gagcccccct tggaaggttc tggtgcttca gctggctcct gcagagtcca   1440

ccccgcctcg tggtgggaat gcagagccct ttgctttcct tcttgccgcc tgcttcctgt   1500

tcctggggac ccgctgggcc tttggtctgc atccctggc caggtccctc agggttgatg    1560

cgtggagaag gactttgagc agtggtgggc agcagtggcc tcctggccag ctcacactct   1620

tgtcctggga ggggcagcct gatctcacct ccacctagta ccttggggac tgaggacctt   1680

ttggcttctc tggagcctgc aagcctcttc ccatgtgtcc agctgctctt cctgctacaa   1740

aggggactgc tcacagtggc ctcagcttgg tggttttgag gggccgcccc ccggccctcc   1800

ataagggtat cctgggcctg agaattctgc atctgccatt ggaggatgga cagcctcaaa   1860
```

```
tggaaggagt cccacgggag atgggtccga ggtccggctg tggccatcca gcccctgtg     1920

gcttgtccag cctctgtgca ccctggtgt cttcactcca ggggcagaca gcagccactg      1980

cagttccttt cttcgtgagt aacagtagtg atagcagctg gggctaacag ctaggcttt     2040

gtgttctgcg catttggtca gcttctcact cgatcctccc taaagcaatg gggaggcccc     2100

cactagccca gttttcagga agtcaactgg gaggttagat gggggccagg gtcccacagc     2160

tactgatggc ccgagccagg ttgagcttcc tggtgtccag tccggatccc acttgcagat     2220

ctcatgctct cagataggtg ggacaagttc ttttgtcaca gtgctggctc tgtcctgagg     2280

cctcattgct ggctgggtgt gctctgctgg gaaaagcttt gcggggcttg cttggttaac     2340

cacagaagag aaggggactg tttggggtgc ctctctgcag cctccccgtg ctgggtggaa     2400

gcacggttac tgtgttctct aatgttcatg tatttaaaat gatttctttc taaagatgta     2460

acctccacac ctttctccag attgggtgac tctttctaa aggtggtggg agtatctgtc     2520

ggggtggtgt ggcccttgga tgggtcaggt gggtgtgaga ggtcctgggg aggtgggcgt     2580

tgagctcaaa gttgtcctac tgccatgttt ttgtacctga ataaagcat attttgcact     2640

tgttactgta ccatagtgcg gacgagaagt ctgtatgtgg gatctgtgct ggggttagaa     2700

tgcaaataaa actcacattt gtaagaaaaa aaaaaaaat aaaaagatgc ggcc            2754
```

```
<210>  101
<211>  301
<212>  DNA
<213>  Homo sapien

<400>  101
cagcggggga atgtatagac aatatggccc atggtgcact aatgctgcga gcggccgccg     60

agatgtgatg gatggtcgcg gccgaggtac atttaatcca tcttctccat ttcctccttc     120

aggagccagc tatgagattt cagtgcattt ctagcccagc ggatgttcat tctccactaa     180

acttcatctt ttactaagca aaggggggatt attccatgag gcagccagga gcaaggggcc     240

atgatattca tgactttgtc tgctgggcat ttttcaaagt gtccttgaat tcactcagca     300

a                                                                      301
```

```
<210>  102
<211>  4318
<212>  DNA
<213>  Homo sapien

<400>  102
gttgtatatg cttttttttt ttccaaataa acttgtcacc ctgcatgccc ttggcaaata     60

agtgaagcag aaataggaac acagtccaca ttcaagttga ggaacagtgt atctttaaga     120
```

```
gctgaccttt gggtgacctg gaaaggggga aagatggcta agcatggaga gaaacgaggc       180

aagagacaag ctatgataca acaccgcttc agcccctgcc ctcaatagca cacaacccac       240

atatcagctt tctctagaga aggaacctac tgtttagtgc tcctcacttt gcaatgtttg       300

tgctacgcca gaatttctcc agtttttttc attatcatcc ccctgagaaa aaaattacat       360

tgaatttaaa ttttccctaa taagagaaat taaatatgaa agaataggat tttgttgggt       420

aagattgagc tttggaaggt cacgaaccat tattctatct aaggtgtgtg ttttgttttg       480

tttttttttg tttttttttg tttttttttt tgcaatccct ctcccctga accaatttca       540

cattgggaat gcaggaccta gactgctgaa taaaaagcta cttcttctat aattgtcagg       600

ttctctccaa tttctcagct tcctcaaaga catggggtgg agttgggtgt gccatcactg       660

agagagctct ggaacttttg actcttagtg acattttttag atttaggggt tcatggcctt       720

ccacatgttg ccaccaactg gtgatctctg ccccttcatg ctgatcaaga aagtagaaac       780

tcctcgtcgc cttcaggttt gcagtcgcag aaacattgcc tgctgtggac tgtcagcaca       840

aaactgggac actggtgtca tttagactgt cagcagtgca catgattgta cgatagactc       900

caggcaacca tgtgcatctg tgcaagatga cctctgcccc aagagaaggg ttacggtcta       960

attaaatgtt taccaagatg gtaccagtgg gctctccccg tgtcctttgg tgttattgga      1020

gctggtgtat gacagactca aggaaatttt ttaaggaaaa tgaagaagaa atcaaccttt      1080

atggttctct ttcattggaa gaggagaata aggaaagaaa tggcaggtag agagggaggg      1140

ggaaaggaat agaaatggca tgtctttgat gctgtggctt gtgtggggac aatgggaaga      1200

gcacagcagg cacaacatat ctgtgttagt gccacgtggt atctgttaag tatggccaga      1260

gcctcacata taagtgaaga gagttaagac aattcttgct ctttgaacaa taatagtcta      1320

tagaatttct attggcaaac catcccagac aacctgacct atcaaacaaa agcaaataat      1380

ccctgtctca gaactgctgg tctaaaagct agaaggggca tgataatgga aattgctaga      1440

aaagagagaa tgctctactc tctttcctgt gcctacctac ccccatccta aaccctgtaa      1500

aacagaattt caaaatagat gtcaaatatg aagtaattca gacttccaaa gaaggaaaga      1560

gttctgccca gggcagtatg agcaaatcca cagggatgtt aagatttggt ccaactcaaa      1620

ggtttatggg cagtgagcct agagtctctt gagagtaaac ccttgcattt gggacaagga      1680

gaatatgtga agttcaggag tgctcacact agagcaagat ccagaaaaaa aaaaatccaa      1740

tggcatttta aactagattg cattatcact caatgctgtt actttgagca gacaaatcag      1800

ttgaatggga gggcaaatgg cagaaatgaa caaaagctat taggtgaaag catccccaat      1860
```

```
gtatcagttg tgagatgatt tttgtttaat gatgatcagg tttacattga agtggcttgg    1920

aagacgtatt tcagagggac tgggtttgta ctgcaaaact ctgaacacta gagcaggttc    1980

tactagcact tgggcagtaa ggtagcgggt gtgtattatg ctattgccat agttctcgtc    2040

tttgtggatt cacataccct ttcccatgag gagcttgcta ctaacagcct cctgtttctg    2100

ttgtttttat atgggagaag agaaagagct tggaatttca attgtctaaa caattggtat    2160

gatttacaag aaggcaaacc attcaggaga tgttcaacag tgtatcattc ttagcattca    2220

atacaatgtt tattataaaa tatacacctg agtttatgtt tttctgccag gctgaagggc    2280

aataatgtct tgctatgcaa acactctatt ttatgtgtga atttttttaa ctgtaatttt    2340

atgtgtgaat ttttttaact aaactctatc atcattttct atgttgacat ctttttttt    2400

ttttaatctg tttccaactc tgagtctgtg aactatctct tctgactgga tgctggccta    2460

aaatcctatt agtgcttaaa cagacctcaa aacactctga acctgtaggc caatacagag    2520

atgttgttct ttgatatatc ttgggtcctt gatggcttca acaaacaagg tcataatttg    2580

tttaaattca gtgttttctg tagatacctt cttctcagtt tcattaagaa gagtaaccat    2640

ctttggtttt ccaaagaatg gaaactccta ccctagactt tagacttaga gcgtctgcct    2700

ttcacgatga gtaagagatc cagaatgttt aggggatgtg cgtcagccca cctggtacag    2760

tggcaaagct gaatgcgaac ttgaggcctc ctgaggcctg accttctatg cccccagccc    2820

tccaccccaa gcacctttg gtgtggctgg aaacacatga cattggatgt gattttctc    2880

aagcccttca ctgtggaagg catgggagac tgcccagcat tgggcatgtg gctgttaacg    2940

tttccatttc aagtccctga ttcttactgg agaagttaag gagccactta atgttttcac    3000

agacctctga ttctgttgtg aatgtggcat tccagtgagt acaacctgct tgctataaag    3060

aaagcagcat attttgacaa ttttatttct tccttgggta cttacatttt tattacaaaa    3120

atggccgtta taaaaaaaga cagaagggct gggcagtggc ttgctcccta gaaactgaga    3180

ttccgaagca ggtgtttcct ctcccctaga ctcagaggta catttaatcc atcttctcca    3240

tttcctcctt caggaccagc tatgagattc agtgcatttc tagcccagcg gatgttcatt    3300

ctccactaaa cttcatcttt tactaagcaa aggggggatta ttccatgagg cagccaggag    3360

caaggggcca tgatattcat gactttgtct gctgggcatt tttcaaagtg tccttgaatt    3420

cattcagcaa acaaagcttt ctggagaatc tctcaaaact taggccctgc tccatttggc    3480

caaaaatgat ggctgctcca aaactctgaa cttcttaaaa ctccatctgc tacattattt    3540

ctggagttta aacatgactt tttctgtctt tgagtataga tgtgtttgtt taattaacga    3600

agcacaagtc tgttaagcag aaggctccaa gctgtattct atacttggga atccttggtg    3660
```

```
ccatctttat tctaccaagt gccaatcacc atggctaaag tgggcgtata ttacagcctg    3720

tgtcctaagc ttagaagctt taatgtactt ttttaaatga aaagtattag aggggggttga   3780

acattgtaac taaagcataa agttagacca attacatgca gagatgttta tttaatattg    3840

tgtgagctga gtccttctgt ataaattatt tgcacacttt tcttgcatga tgaactgatt    3900

ttttatagtt gtttgtacca gacggtggca tattttttgta aaaaacttttt gacactgaat   3960

tgcaataaaa tgttttttcca acaaaaaaaa aaaaaaaaa tgcggcagag gctgcggggc     4020

gacgcgcggg ccggcgcagc catggtgaag attagcttcc agcccgccgt ggctggcatc    4080

aagggcgaca aggctgacaa ggcgtcggcg tcggcccctg cgccggcctc ggccaccgag    4140

atcctgctga cgccggctag ggaggagcag cccccacaac atcgatccaa gagggggggc    4200

tcagtgggcg gcgtgtgcta cctgtcgatg ggcatggtcg tgctgctcat gggcctcgtg    4260

ttcgcctctg tctacatcta cagatacttc ttccttgcgc agctggcccg agatgcgg     4318
```

```
<210>   103
<211>   2288
<212>   DNA
<213>   Homo sapien

<220>
<221>   misc_feature
<222>   (948)..(949)
<223>   a, c, g or t

<400>   103
tgtgacggaa acattcacac ggaacagcta ggccatgata cgccagcttc cccgtctatg      60

ggataccaaa gttgccagca attaatttac attaccaaaa aggagaaacc attatttatg     120

ctatcaccaa agccataccc ttaaaagtaa aaacacatct ccacttgata ttagtaattt     180

gagaaaactt agcatatcta caactactgc ttaatccaca acttttcatt gattcaacat     240

tatcacttaa atgcagatgc aaaataaccc ttgcatggca aacatgttta ctctgtgcta     300

atgaaactat gaaacagttc ctgcaagttc acagacacag tcaatcaatg attgactaca     360

gaacagactg gtgagtgtta ccaaaaacaa aagacctgcc caggggacca ctaggggtgg      420

aggaagaaca cctgggtctc actcactggg cacttgatgc tttcattttt atctgtaagc     480

caggggacaa ttatattaat attgtatgaa tacactgcta ctgggaaaag cattcattca     540

acagatgccc agctacatac tctgtaccag gtagtgtgtt aagtgctgaa acagggaagg     600

acaaggcaca tcctacgggg gctcgcagtg tgggcaggtg ctgagctaac gcacacacac     660

aagggctggg tacctgccag atctgtatca ctccggagcc aacgacctgt ctctctgaat     720
```

```
gatctctggc atggtaaaag agttaactgc tatttcaaac aggctgaaca caaaactttt    780

tttgccttcg cttactgcac tgcttctcaa acttgactca cgctggcttc acggcctgcg    840

acgtactgca ctcacgaact tactcctgct gaacgccttg cgccgctaac tccactgcgc    900

tcactacgcc tgcttctccc tgctgctgca cacactctgc tctactcnnc cgctcacaat    960

ctctccacac aacataccgg agccagcccc ccccccctcc ccccgccccc ccccctgccg   1020

ccccccccc ccccccccc cccccccaac actataactc ctgcgctcag cgcctcacct   1080

gcccccgcac tcccccagc tccggcccac acaccatgcc ccgcagccca accctcgcca   1140

ctcccacact gcacctccgc gcctccaaac agccccgcg accaacacac accgcgccca   1200

cacgccgact acccccggcc gcccagccca cccaccactc ccgacatgcc ccctccgccg   1260

ctccaccata gaacacctcc gccccggccc cgcgcccgac ggccccgaca ccgcgccccc   1320

gccgccgcca acgcccgcac gccaccaccg ccacccaccc ccacacacgc acccagccac   1380

cactacccgc caccatcccc accccaccac tcccacccgg cccacaacca ccgcccggcc   1440

acccaccaac acacgcccgc acgaccccca ccccgccccg ccccaccacc tcgccccgcc   1500

aacaaccgcc acccacaacg cgcccgcccc accgccccag ccacccatcc acacccaact   1560

accagccccc gccccccccc ccccgccacc gcaccccact ccaccaagac gaaaactccc   1620

gacaccgccc actaaacgca ttacagcaag ccgctgagac ccgaaaacaa cccccccgcaa   1680

gcagaggcac cgctaccatc aaacgcaaca accacacaac gcacggctat catcccccc    1740

ccaccgtgac cacaaacgca ccaccccgcc cgaccagcac gccacacccc cacggccatc   1800

acgcacagca ccacaccca cgcactcaca cgacgaaata cccccacgcc agccgcccaa   1860

ctcccacccc ctacggcaca aacccacacg gcggacccac acctaccaca cacacgcaac   1920

acaggacgca tcagaactac ctaaccacac gcacgaacac acaacagcac accacccccc   1980

aaccacggac gcacgagctg tcgacccact accaccacac acgatgaccc gacacagcgt   2040

gcgagcgcca tacccgcgga gcagcacagc caatgcacgg ccccacgacg gcgacacgcc   2100

gccatccttc agcctcgcgc cacccccgtc caccgaacca agaccaagac gcagaatcgc   2160

aggccgcacc acacccgcta cggtccgtag cgagacagca aacaacaaga cgactgcggc   2220

gccgccacca ccgccaagca actacgcaca accaccgacg cctcatcacc ccaccaccac   2280

aacactta                                                            2288
```

<213> Homo sapien

<400> 104
```
ggatatcgac taactatagg ccatgttgac taatgctgct cgagccggcg ctgtgtgatg        60

gattggtcgc ggccgaggta cacatattca tgccactcgg ctctgaaaag aggttcaagg       120

tgggtcaagg tgggtcttgg ccagtggagg aaggaaggtg tccaggactt taggttaatc       180

aacagtgggg acagagagga atgatttccc ttgtgaaaac aacagggttc ctttctcata       240

ttcttgtggc cagaaactgg ggtgaacttc agttgtggtg taattgaaat gaaacagtga       300

gagccatttc tccatggaac tcctatgacc tccattttaa cttctgacaa agttaacttc       360

atttatacaa tctgtatttg aaaacagtaa tcacaaccaa aaaggtccta taaacctgta       420

atagatgtca aagggattca cattctgaac tttaatttta aggacccttt aaaaggccta       480

gacttggatt aaagtaaacg taatattcca agctaaaacg aggcaccata aaaaatcaac       540

tcaaaacatc caaacaatgg ctagatggac taatgtaggt tgttttgctt tt               592
```

<210> 105
<211> 2180
<212> DNA
<213> Homo sapien

<400> 105
```
tttttttttt acatctgtac aagatttatt tcatttacca caagttttag agtgaaagta        60

tatgccctaa tacagaagga gtgattcaga acccaccaaa agatcaagag ccaaagtcag       120

ggcttgtatc ccaggtcaat aggagtttca tccgccattt gtttttctgg gattaaagag       180

atgatgtgca gaacgcccgg gctgagctca ctatggcttc tgacatacaa gcaccactag       240

gaacaagact tcatgcttca tccttgctct ggctgtgcta gtgagtggca aaagcctctg       300

ctcgtgcttg ccctccaaat ttttcacaag cattcctgtt actagccata gcttcccatg       360

acttcacatt tgagtaagtt atcctgaagt gtgtggctgt aatattgaca aatagaacta       420

atgagagtga actgccatct gtttaacaaa acgcactctt ctaagagaat acccagtctt       480

agtgcattta gtacatagtc acaacattga aatgacgtga gaatcaatac aaaatattta       540

ttttttttca aaccacagaa ttcttaaccc cagagccaca caataaagtt ctcagaattg       600

taagccatta acatttttct aaacaatgca gtccagagat gaagataatt ccaaccagc       660

agggatgcaa tatatagtag gttcccctat gaatgaagct caaattagca tttcctttaa       720

ttctcccaca gccactccat caacagaagc agaaacagta cacatattca tgccactcgg       780

ctctgaaaag aggttcaagg tgggtcaagg tgggtcttgg ccagtggagg aaggaaggtg       840

tccaggactt tagttaatca acagtgggga cagagaggaa tgatttccct tggaaaacaa       900
```

```
cagggttcct ttctcatatt cttgtggcca gaaactgggg tgaacttcag tggggtaatg      960

aaagaaacag gagagccatt tctccaggaa ctcctatgac ctccatttta acttctgaca     1020

aagttaactt catttataca atcgtattga aaacagtaat cacaaccaaa aaggtcctat     1080

aaacctgtaa tagatgtcaa agggattcac attctgaact ttaattttaa ggaccctta     1140

aaaggcctag acttggatta aagtaaacgt aatattccaa gctaaaagag gcaccataaa     1200

aaatcaactc aaaacatcca aacaatggct agatgactaa tgtaggttgt tttgcttttt     1260

agttgcaaag cttttcagta tctcagatta gtgtatgttc ataaacaat gctcagttat     1320

tttaatagct gcttatgaaa caataacagt ttaactcaag ggcaatgctt cttgcataat     1380

aatcacaaaa ataattaact gctataaaac gggaaaaaaa gtagaagaaa ataaagccag     1440

cctcaataat aaaaaggcaa aatctggagg ggttactcgg cttaaaaga gattaaccag     1500

gattatttaa atactataat acacagtgct cctgctcact tctaactgca gaaaccaatt     1560

ttgtttgcta gatcaccatt acctttgcta gtatgcgtac agaccaccac tcggaagtta     1620

tccttttgtg ctgaaaaacg ttcaaatccc ttgtttggtc agtacagaat attgcgaggt     1680

gatgctcatg caaactcttc ctgaggaatt tatgtgtgca aatctgcaac ccgacagcat     1740

ggcacgcagc cagggagtgg tagctgcaca gtgtgagcac tggagatgga tgtgcagtgt     1800

gcagtgttca cagccatgga catccattct tctgcaatct catctaccca caaattagct     1860

ttcactctag accccaaagg gagggtaatt gctgcaaatt tgttaaaggg acagaagaaa     1920

aagtagcttg tctacaaaat aatgcacaat gcatgcatct gggtttgtgt ttcttctcac     1980

taaccttgcc taagaaccat taggataaaa gtcacaacac caggttttgc tttctgcccc     2040

acaaaaaaac agtagttaat tcctgtcagg ttagggtaca ggtgtgacaa caaaaggtca     2100

caaaatgaca atgttactga agcttaaggc caacctttaa aacatgtacc gtctctcaaa     2160

acaattatcg atttactttt                                                 2180
```

```
<210>   106
<211>   611
<212>   DNA
<213>   Homo sapien

<400>   106
cgggcgtctg gcgcaggtac gttacggagc tatctgggag gaggaagccg tccacccaag       60

ctcacccgac tggttcaagg ttaacaatgg agagcctcac aaacacacgg aggcacttgc      120

gagaggcaga ggctggggcc acagagctgt gaggagagag tgaatctccg tgcatggcag      180

acatgttgtg agaggcagag gctggggccg cagagctgtg aggagacagt gaatctccgt      240
```

```
gcacggcaga cacacaaacc ccatcctcag ctgcagattc acaggagagc atgggggcaa      300

gtgggctctg cagttataca gcaggacagc gcacggcctt gggcaggcca caatttctta      360

aagggaatgg gaaaatgaga gcttacggaa agcaggataa agcgccctcc actcatgctg      420

aaaagcacga agacctgctt tccaggaatg acctgcctga ggccgggaca gtcagctacc      480

aatgcaagac acaagagcaa gaaggcccaa gtgcagagag cgcaagttaa ctcctccagc      540

tccaagacac agggtgagag caggctacgt gtgggcagag acggcatcta tctgcccatc      600

tctgggaaaa g                                                           611
```

```
<210>   107
<211>   1845
<212>   DNA
<213>   Homo sapien

<400>   107
cacgaccatc tcgcactacc ctgactacag ctggagcgcc cagaggcgag ccctggtgga       60

ggaagaggtg agctgagtgg ggcctatgct gggggaagct ggcccttccc acattccacg      120

ccctgagtgc ggagtgctgt tttccgccgg ggtgctttga gtctcgctct gtcaccaggc      180

tggagtgcag tggtgcaatc ccggctcact gcaacctccg cctcctgggt tcaagcgatt      240

cttctgcctc tgcctcccga gtagctgggg ttacaggcac acaccaccac gcccagctaa      300

tttttgtgtt tttggtaggg acggggtttc accgtgttgg ccaggatggt ctctatctct      360

tgacgtcatt tgtgatccac ccgcgtcagc ctcccaaagt gctgggatta caggcgtgag      420

caatgtaata aacagacttt attttttaga gcagttgaag gtaacaggaa gtggagctga      480

aaacacaggg tggccccatc catgccctct cacagccct ccttcctctg agcccctcac      540

gtccttggct ctcctccgaa gcttcttttc ccagagatgg cagatagat gccgtctctg      600

cccacacgta gcctgctctc accctgtgtc ttggagctgg aggagttaac ttgcgctctc      660

tgcacttggg ccttcttgct cttgtgtctt gcattggtag ctgactgtcc cggcctcagg      720

caggtcattc ctggaaagca ggtcttcgtg cttttcagca tgagtggagg gcgctttatc      780

ctgctttccg taagctctca ttttcccatt ccctttaaga aattgtggcc tgcccaaggc      840

cgtgcgctgt cctgctgtat aactgcagag cccacttgcc ccctgctctc ctgtgaatct      900

gcagctgagg atggggtttg tgtgtctgcc gtgcacggag attcactgtc tcctcacagc      960

tctgcggccc cagcctctgc ctctcacaac atgtctgcca tgcacggaga ttcactctct     1020

cctcacagct ctgtggcccc agcctctgcc tctcgcaagt gcctccgtgt gtttgtgagg     1080

ctctccattg ttaaccttga accagtcggg tgagcttggg tggacggctt cctcctccca     1140
```

```
gataccctca cgtaccctgg ggttctgggt gtcacagaag ctgctctggg tgcggccact    1200

ctggagcggg gcccttgtgc caggtgagac acccttctcc tcagcaagcg gacttggtgc    1260

gcagcaggcc aatacgtcgg tgccgacatg ccatgaagca cgggaggccg taggagattg    1320

agggaggtga atgactcagt cctcatcgta aggagcgcgc tgaggccgaa gatgagcagc    1380

ggagctggtg catggggccg actggcccca tccatgccct ctcacagccc ctccttcctc    1440

tgagcccctc acgtccttgg ctctcctccg aagcttcttt tcccagagat ggggcagata    1500

gatgccgtct ctgcccacac gtagcctgct ctcaccctgt gtcttggagc tggaggagtt    1560

aacttgcgct ctctgcactt gggccttctt gctcttgtgt cttgcattgg tagctgactg    1620

tcccggcctc aggcaggtca ttcctggaaa gcaggtcttc gtgcttttca gcatgagtgg    1680

agggcgcttt atcctgcttt ccgtaagctc tcattttccc attcccttta agaaattgtg    1740

gcctgcccaa ggccgtgcgc tgtcctgctg tgtaactgca gagcccactt gcccccctgct  1800

ctcctgtgaa tctgcagctg aggatggggt ttgtgtgtct accgt               1845
```

<210> 108
<211> 160
<212> DNA
<213> Homo sapien

<400> 108

```
ctgttacttc cttttgctgt cagagggttg ttgacaatgg caagggggga tgttagtgag     60

atccaggtgg tggtggcttc ttggtccact cagcttgcac acatgcaaga ggagggtctg    120

tggcccctca gccgtgctgg tggcctcctt cctcaagctt                          160
```

<210> 109
<211> 4621
<212> DNA
<213> Homo sapien

<400> 109
```
ctgagagaag cacgggggga ttgattggtg cttttagaga acacacctag atacaaatgt     60

gatacatttc tatactcaaa ttagaacaca tgataatgta gatttgttca ttcatcaaag    120

acaatcaccc attatagttg taattctcag tatttggctt ctcttgtgga tgatcagtat    180

tactttcttt tcataggtat tggatatgct ttttaggtct atcaaaaact aaagtctctg    240

aagtgacact ggtacaagca attcacttga atttctaaaa acagataaaa tataatggac    300

cggccgcggc cgccgggagt tttttatttg gaatattatt agatgatgcc ctatgataag    360

atgagacaaa tgatggggag ggaaggagga tggcccttct ctagaatcag caaacccaat    420
```

```
ggttctgtga aggtcagacc caagcttgga gcagctggtc tggatgcaga tccaggagct    480

gcagagtgtg gaacaggaaa ggctctgccc agggcccacg agctctagca ttcctgctgg    540

cagattagag atcttagtta aatttgacca agaaaggagc ttagctaaga ggtctttgtt    600

tccagaggac ccaagactac cagactcctg tgcagtctgc ctgtctgcag agcctccaat    660

cacggtttaa agtggtcttg gcctcccagc ccccactgct gcagccttca gagccagcct    720

ctggactcag cgccaggagc ctcctctcct gctgccctgg tacctgtcat cctagtgtca    780

cctatttgtt ttgcacagca ttctggagaa catgtgcctc acaaagtgat cctgtttttc    840

tcaccctcca aagctgaggt ggctaaggga ggcaggggtg agagagctca ctctctaaac    900

cacaggcagg gcaaggtgct tctaggccgt gtcccctccc tggggaatgg tcactactcc    960

tcagcatggc cacaggcccc tgtggttttg ggagtttgct gagtgactgg aatgggctga   1020

ccccagccgt ttccctgctg tggaagcagc aaggtagggg cactgctcgg tggtttgtca   1080

agctcagagg cagccacgga tggttaggaa caggaagcca cactgctaag gtgtgatgag   1140

ctagaaggga gacatcctgg acttcaagtg agacaagtgc agaggaggcc actccactta   1200

ggaccttcct cttagacctg catgagcacg tgtttcactt aagcacattg ggtccgaatt   1260

gtggcgcatg aacccagctg ttaaaccagg taccctggga ctgccctctg cctctcagag   1320

ccctacctgt cctggacttg aaggcgagca tcaggcaggc cttctcagcc catcttccac   1380

caggagtgca gagccagggt gctgagagga gcagggactg taactacagt aggaggcaac   1440

tttgctggtg tcattcctgc tcggattgac tttgtgctcc ctcccatcca cagctatggt   1500

agccagtatt tccccagcag ctctctagtg gggaagagtg ctagaacca ggccattctc    1560

agtcgaattt aggaagacca agactcatgt tcctgacagg acggtcattc cctcatggca   1620

tcactgactc agttctaatt cctcccctcc tgtttcattt tggtttgaac aacctgtgcc   1680

tgcagctgtt tcttccacct tcctggagct cacaattgga gcttcatgtt cagtcttgag   1740

ctcctaatgt ttccagacag ggcagggat aggacagcca taatctatga aagctgtgaa    1800

acaaaccctg ggttatatag acctcagatg gtctcatctg aaggctttgc ccacttccca   1860

gtgagcagag ggtttgggga acaaagaggt agctgaagag tggtggtttt tccctgtatc   1920

ctgattttca gaaagggctt tagtctctga ctgtggcta gtagctggct ggctgaccag    1980

gggacggggg tctaataggg tgtctgacca taggacacct ctcgtgtttg gccttccctt   2040

tcttgtgtgt ttgtgtgtgt gtgtgcatgt acacacacaa atctgtatcc ccaggagtgc   2100

ctcctgcagt cactgggggc tcttccgtgg tgcaccatcc catgagagca gatcagaggg   2160

ctgtggtcag gacttcctcc cgagctgccc tccctccctg ggatgagttt cctctccacc   2220
```

```
tgctccaagg tgccttacga ggtgcagctc ttcacctggc cacatggcat ccatcaccgt   2280

gttgagaaat ggtgggacgt tggctggata ttgtgtgcta tgaatctgat ttgtccaaat   2340

ctggacctca gccaagccac ctgtggtgga accttgcaag tcaaggtcat gaacaaattt   2400

cttgtaacta ttggaaataa actaatgagg tagaactgtc atatccaaat ggaagaggtg   2460

gttggtactg ttacttcctt ttgctgtcag agggttgttg acaatggcaa gggggggatgt   2520

tagtgagatc caggtggtgg tggcttcttg gtccactcag cttgcacaca tgcaagagga   2580

gggtctgtgg cccctcagcc gtgctggtgg cctccttcct caagctttaa cttgtgccct   2640

ccctggcaac agggagtcat gggttaatgt cacctgtcat gcctctttct tcagggaaaa   2700

tattaaaagg ctcaaatcca agctgtgact cccttagac agtgtaagcc tgtagggtgc   2760

agccccaagt ttatgtccaa aggctgcctc agaaccctgg agggagcagc gcccagctgg   2820

cagctcactc tcccccttgca gttcactggc cttttcgcag ccaggctaag ataggcagtg   2880

caaggagctt cccactggcc agagcagctg ccttgtagaa tgtggggctg gctttttagaa   2940

gtttcacacg cttgcagcta agagtgcaga gctctctgtt ttacttcgtg aaacattagc   3000

agctctgagg ggcttggctt ttggtaaggg acttatagtc tgacttgcca caagcacctt   3060

gagctcctgg gttggttggt ggttggttgg ttgggttgtt ttaaatttga tttttctttt   3120

cctgaagttt gttagaagtc agacctatgc aaggaaaacc atggcccact tcagcagcca   3180

tccagtgggg gtgcttaatc ggtggtggta ggattcatgg aaacgttttt ttgaaatgaa   3240

agagaagatg atgtacttac attgtaaaat ggtttacaat aaagtttggc atcttattac   3300

agttttttt aaaaagaaac catcacattt gtggttgttg gttgtgggtt ctctggagtt   3360

gaaacagctt ggcagggtca aaaaagattc ccctgtgaat tagaaggttc tccccaggga   3420

ccagagtgag aaggaacctt acgaagcctc atggcaggag tgggagccag caactgccca   3480

gtgaaaagcc aaacatgctc ttgccatgtc catctccact tcttcgctag tgagaattaa   3540

agcaagtccg tctctgagga ggacatcgtg ttggggaggt agagtataag cagtgagtag   3600

cccacatcct tgtccctgag gctgcggggc tggaaggagg tccctgggca gagccgcagc   3660

atcaggtgcc atctgcaggg gcacccctgg aactagtgga aggcccccac aaggcctggc   3720

ctgccctcag ctgcctcttg gcccatgtgc cacatcctgg gcattcctca tgtcagcact   3780

tgtctcagat caagcctggc agtcctctca ttggcctcct ggagccaggg tgtcaggagg   3840

gggattgggg tggggttcaa agtatgacag caatggagtg gcatttggga taaccaaatg   3900

tcagtgcctg gttgagttcc atctgcctgg agccttcgag gataaaaata atctccatca   3960
```

```
taaactgaaa aggacttaga tatgtgtgtt actgggaggg ctgcgaccta tgcacaccta      4020

ttccccatac ccaccccagg cgtaggctcc tggcctgtgc cctgggggat cttccccttg      4080

caaggagggg tgtgttagga gcttctagca aaggagagct aagtgacctt ccggggagcc      4140

cttgggcctg ttcttgtctc tgcagctcag tatctggagt gggcttcact ctcccccacc      4200

ctctttgagc aactgaaact gtcctgcagg ccagcccccc tgcggtggcc tcacctactc      4260

ggaggtgagt aggctcaggc ctgagcctga gcctgtttcc cacctctgtc tcatcagtgc      4320

tgtcaccatc gagcatggtt tcctccctgg tcctttccag accccttact cccccctctc      4380

tgaacttgca gttggaatag gatagaggac aaggacatca gcaaaaacat gagcaactcc      4440

ccaggctccc tttacctcac tttctccacc tgtgaacctg tggtagcccc tctctgagtt      4500

tgctgcaagg gcccagtgag cttgccataa tcagacgcag cagacacggg aagctcctgc      4560

tctgccacca tgcagggatg gaaaatctgt ccactggaat ccaggggaag ggatggaaga      4620

g                                                                     4621
```

<210> 110
<211> 303
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (176)..(255)
<223> a, c, g or t

<400> 110
```
tccctgttat tgttccgtat attacctgta agcagatact gtattttatt ttagcctatt      60

tgacagaaca catcactcag aaaaagtgaa gtttcagagc aaacagtgaa gaaatcagtg      120

tgattgtaga caaaaagtcg gttcacagaa cggagcagcg ggggaggaa gggaannnnn      180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240

nnnnnnnnnn nnnncccgg gggcagccgg ggctatgagg ggacgtgctg atgcgtgatg      300

atg                                                                   303
```

<210> 111
<211> 1848
<212> DNA
<213> Homo sapien

<400> 111
```
tgttttttttg agacacgggt ctctggttaa ccccggctgg ggtgccatgg tgccatctcg      60

gctcactggc aacctttgcc tccccgattt aaggcggttt tttcccgcct ctagccctcc      120
```

```
ttgagtatgc ttgggactac agggcgccca cctctcacgc ccggcttatc tctctgtaat     180

tcttagtaga gacaggcttt tcacccacgg tggcccggct ggtctccaac tcctggcctc     240

cagtggtccg cccccctttg ccttcccaag tgctgggatt accggggtgg ggcccccgtg     300

cctggcccgt cctatcctcc cccccaccct tttttttttt ttttgacat ggagtctcac      360

gccatcaccc aggctggagt gcagtggcgc catcttggct cactgcaacc tccgcctccc     420

atgttcaagt gatcctcctg cctcagcctc ctgagtagct gggactacag gcgcccgcca     480

ccacgcccag ctattttttt gtatttttag tagagacggg gtttcgccat gttagccagg     540

atggtctcga tctcctgacc ttgtgatcca cccgccttgg tctcccaaag tgctgggatt     600

acaggcctga gccactgtgc ccagccttat cctcaatttt ctaagcataa ggatttaaga     660

gttagtggga aagcatgact acggtttaaa agaacctggt cagctgaagc agtcccactt     720

ggccattcca gtacacttcc tactctcgct tcatggagaa gaccgtctac tgacaagaga     780

atccatcccc tttgcacaca gtggtcacct gacagctcag aggtcaactt cttggttttg     840

aggaaaaatt caaaaggctg cacgtttaaa ggagttgttc catttcagtg ccccattagc     900

ctgtctttcc tcagaaattt accaatctct tgatgtgata agcaccaaac tatgaagctt     960

ttcccttcct ctccccgctg ctccgttctg tgaaccgact ttttgtctac aatcacactg     1020

atttcttcac tgtttgctct gaaacttcac tttttctgag tgatgtgttc tgtcaaatag     1080

gctaaaataa aatacagtat ctgcttacag gtaatatacg gaacaataac aagggactga     1140

aggtacaaaa cacacacgga cattatggtc atataaaata tatagaagta cctaacgtta     1200

acaattttg taagaagttg cacattttgc tattttttta aagcatttcc ccacattttt      1260

tttcatctgt agatcctctg cagttaagat tgagcacccc cccgcaactt tttttttttga   1320

tacagagcct cgctctgtca ctcaaggctg gagtgccagt ggcatgatct tagctcactg     1380

caacctccgc ctcgcaggtt caagccattc tcctgcctca gcctcccgag tagctgggac     1440

tacaggcgtg cgccactgtg cccagctaat tttttttttgt attttagta gagacaaggt     1500

ttcaccatgt tggccaggct ggtctcgaac tactgacctc gtgatccgcc tgcctcggcc     1560

tcccaaagtg ctgcgattac aggcgtgagc cactgcgccc ggccaagatt gagctccctc     1620

ttgcaatgtt tctcaaattc atcacgattg gaacataccg acggaattca ttttctgtct     1680

gaagcaatga gtgctataca tgaaagtttt cctcacatat aatattcatc aagtttattt     1740

acagtataag ctttccgatg ctaagggctg agatgtgatt aaaggctttg ccgtattcat     1800

cacattcagg aggctggggg gggggggatta atttaattaa ggatcctt                 1848
```

<210> 112
<211> 333
<212> DNA
<213> Homo sapien

<400> 112
```
ggccgaggtc tagaatgggt gaaggaatgt gttagtgtct ggagccatga aggccttgtg      60

ctgaccaagc tgctcacctc ggaggagctg gctctgtgtg gctccaggct gctggtcttg     120

ggctccttcc tgcttctctt ctgtggcctt ctctgctgtg tcactgctat gtgcttccac     180

cctgcgccgg gagtcccact ggtctagaac ccggctctga gggcactggc ctagttcccg     240

acttgtttct caggtgtgaa tcaacttctt gggccttggc tctgagttgg aaaaggtttt     300

agaaaaagtg aagagctgga atgtgggggga aaa                                  333
```

<210> 113
<211> 2269
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (2266)..(2266)
<223> a, c, g or t

<400> 113
```
gcgagcggct ggcggatccg acgcgcgaga ccgggagggg acgagggcgt tgcaatcgtt      60

cggggcgggg gctttccggg gaggggggtgc tcaggtgcac cagcggcggc ggaccctcag     120

actctgccct cccctccctt taaccccctt ccagccggac gggaggcggg gcagggctga     180

gcatttgtga cacctacatt tccgtggctc ccttctttttc ccccgacccc tgtttatctc     240

ttcgccttcc agaagttctt ttccatcagg ccgtcgcacc ttgcgtggga aggagcaccc     300

cacttggaag caggaggcgg ggttcagatc ttggccctac ccctcctgtg ttaaagtccg     360

cgagcctcag tttccctcac agtatttttt gcctcgcctt acccggtttt gaggatctgt     420

acgagaaaga gaaaggaagt ggacatttgt tgaattcctg catggccaaa taccacgcag     480

actgcttcat ccgccacgtt taatccttat tacttggtgt tctcagaact cccatttcat     540

ggattcttaa gctcacagag tcagtgaata acagaaaggg attcagatct agccgtttag     600

ctgcacagtg gagttcttct ccagagtctt cccttgtctg ggctctggct ggaactattc     660

ctcagccaaa tcctcgcccc agaacagtgc ttcctgtttc tccagctgag aagtctccct     720

ttcagtttcc ttcttccagc acggagtaca ctgctctgcc tccacttaga ttacttcaga     780

aatgaaatgc agcaaatatt tatccagcag tgcagggagt tgaacttttg gagtcgggaa     840
```

```
ccttggattc ttgttctggc tctgccactt actgtgtggc cttgggaagt cctttgtctt     900

ctctgagctt tcttttctct ttgcgtaaaa gcggtgctct tgtcccattc tccctccctg     960

tcttccagca ggctctcccc ggaggctcag ccccctctgc tccccatggg caactgccag    1020

gcagggcaca acctgcacct gtgtctggcc caccacccac ctctggtctg tgccactttg    1080

atcctgctgc tccttggcct ctctggcctg ggccttggca gcttcctcct cacccacagg    1140

actggcctgc gcagccctga catcccccag gactgggtct cttttttgag atcttttggc    1200

cagctgaccc tgtgtcccag gaatgggaca gtcacaggga agtggcgagg gtctcacgtc    1260

gtgggcttgc tgaccacctt gaacttcgga gacggtccag acaggaacaa gacccggaca    1320

ttccaggcca cagtcctggg aagtcagatg ggattgaaag gatcttctgc aggacaactg    1380

gtccttatca cagccagggt gaccacagaa aggactgcag gaacctgcct atattttagt    1440

gctgttccag gaatcctacc ctccagccag ccacccatat cctgctcaga ggagggggct    1500

ggaaatgcca ccctgagccc tagaatgggt gaggaatgtg ttagtgtctg gagccatgaa    1560

ggccttgtgc tgaccaagct gctcacctcg gaggagctgg ctctgtgtgg ctccaggctg    1620

ctggtcttgg gctccttcct gcttctcttc tgtggccttc tctgctgtgt cactgctatg    1680

tgcttccacc cgcgccggga gtcccactgg tctagaaccc ggctctgagg gcactggcct    1740

agttcccgac ttgtttctca ggtgtgaatc aacttcttgg gccttggctc tgagttggaa    1800

aaggttttag aaaaagtgaa gagctggaat gtgggggaaa ataaaaagct tttttgccca    1860

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    1920

aaaaaaaaaa caagcaaaaa gacaagagaa gaaacacaa gaagaaaaa aaaccacaaa    1980

caaagacaaa agaaaagaaa agaagagacg aaaagagaga aacaagaaag aggagaggac    2040

aaagagcaag aacgaagaga gaagaaaaga gagcacacaa agagaagaga agaagcgaga    2100

ggaagcgaaa aagagagagg aaaaagagaa aagaagagaa gaccaaaccc gagaagaaga    2160

gagaggaaag gcgagcgagc aaagagcacg agaagagaag aaaggaagcg agggtgccaa    2220

gagaagcgga gagaacgaga gggagaaaag agggagagga agaagnagt                2269
```

<210> 114
<211> 550
<212> DNA
<213> Homo sapien

<400> 114

```
agagatatat agcccgtctg ggctaacttg tgtcctctag atcatgcgtc gagcggtcgc      60

cagtgttatg tatcgctggt cgcggccgag gtacacacaa gaagccagaa gatattttt     120
```

```
tttcagtgaa ctttctcctg gaagcaaagg agaagctatg ggagatccag gcatggtttt      180

ggcttctgga ggctgttttt tggttactgg ggtctcttca aagcaaaacg ggatcaggat      240

gaagaggggg aaaggcatgg gccataaata aataaggaaa tttgccccga ttctacaaat      300

gcatctgatg gaatgaggag ggtcaggctg tgagggattg ggggtagctc caggctgctg      360

ttagggacac acttgagctg gttcattccc tggagtgccc cgcaactgcg tctagggaga      420

ggcaggccca agcacatgtt cagtctaatt ccagctcaca ctggaaggct tcctataggt      480

ttggttgccc tgatcacagc cgagctgccc caccaggaat taaccctggt gggcaaaggg      540

tccatcttct                                                             550
```

```
<210>   115
<211>   4441
<212>   DNA
<213>   Homo sapien

<400>   115
agcgggggca tcgccgcccg cgccctcta agtgccgggc cgcaagctcc accgcagccg       60

cctgcaagca gcggcgcctc ggccctcgac ctgcgcgcaa agcctgtgct ggagccgtcc      120

tcccgcggcg gggaccggga ccggggaccc aagccaatcg aaagctccaa ccatggccat      180

ggggctcttc cgcgtgtgtc tggtggtggt gacggccatc atcaaccacc cgctgctgtt      240

cccgcgggag aacgccacag tccccgagaa cgaggaggag atcatccgca agatgcaggc      300

gcaccaggag aagctgcagc tggagcagtt gcgcctggag gaggaggtgg ctcggctggc      360

ggccgaaaag gaggcactgg agcaggtggc ggaggagggc aggcagcaga cgagacacg      420

cgtggcctgg gacctctgga gcaccctctg catgatcctc ttcctgatga tcgaggtgtg      480

gcggcaggac caccaggagg ggccctcacc tgagtgcctg ggcggtgagg aggatgagct      540

gcctgggctg gggggcgccc ccttgcaggg cctcaccctg cccaacaagg ccacgcttgg      600

ccacttttat gagcgctgca tccgggggggc cacggccgat gcagcccgta cccgggagtt      660

cctggaaggc ttcgtggatg acttgctgga agccctgagg agcctctgca accgggacac      720

cgacatggag gtggaggact tcattggcgt ggacagcatg tacgagaact ggcaggtgga      780

caggccactg ctgtgccacc ttttcgtgcc cttcacaccc cccgagccct accgcttcca      840

cccagagctc tggtgctccg gccgctcagt gcccctggat cgccagggct acggccagat      900

caaggtggtc cgcgccgatg gggacacatt gagctgcatc tgcggcaaga ccaagctcgg      960

ggaagacatg ctgtgtctcc tgcacggcag gaacagcatg gcgcctccct gcggcgacat     1020

ggagaacctg ctgtgtgcca cagattccct gtacctggac acgatgcagg tcatgaagtg     1080
```

```
gttccagacg gccctcacca gagcctggaa gggcatcgcc cacaagtacg agttcgacct   1140

ggcctttggc cagctggaca gcccggggtc cctgaagatc aagttccgtt cagggaagtt   1200

catgcccttc aacctgattc ctgtgatcca gtgtgatgac tcggacctgt actttgtctc   1260

ccaccttccc agggagccct ctgagggcac cccagcctcc agcacagact ggctcctgtc   1320

ctttgctgtc tatgagcgac acttcctcag gacgacacta aaggcactgc ccgagggcgc   1380

ctgccacctc agctgcctgc agatagcatc cttcctgctc tccaagcaga gccgcctgac   1440

cggtcccagc gggctcagca gctaccacct gaagacggcc ctactgcacc tcctactcct   1500

ccggcaggcc gccgactgga aggcggggca gctggacgct cgtctgcacg agttgctgtg   1560

cttcctggag aagagcttgc tccagaagaa gctccaccac ttcttcatcg gcaaccgcaa   1620

ggtgcctgag gccatgggac tccctgaggc cgtgctcagg gccgagcccc tcaacctctt   1680

ccggcccttc gtcctgcagc gaagccttta ccgtaagaca ctggactcct ctatgagat   1740

gctcaagaat gccccagcgc tcattagcga gtattcccta catgtcccct cagaccagcc   1800

tacccaaaa agctgacgtc ttttacagaa tgtgggatcc tcgagctaag atgagggcat   1860

ccctcacgtt cacacccctg gtggcatctg ccagccctgt tctggggaca aggcgggctt   1920

tcgtgggagc cgtgctcagc ctgccaggaa gccaagccct acagtgcaga ggaaacagaa   1980

tttcaacggg aagctggttt gcttcatacc attgggatct gctggtaaag ctgttatttg   2040

ggtttaggga ctgatccctt gcagtttact tctggatcac catgaatggc caagatggtg   2100

gcagaacacg ctgtggaccc tgagttagag acaatgcaaa tgttggattg ggtgtaattc   2160

tttttgaatc ccagatccag tctgtacttg aatatgagca gaggatctac aagaatgctg   2220

acagggaacc gtgttaagac ccagcacccc tattcccagg agcttctggc ctgaccatct   2280

gcagccaaag cactaacagg gacagatatg ggaatgtcca cctttgatcc gcatcctgca   2340

caatagtggt cccaccatgg ctgccacttt tttatactat ttggagaaaa gaccttgtat   2400

aaattcgagg cccgagtgac taacgtctct gtcacacgga aatgggtact tggtggcata   2460

gagaaacaca attagccact ttttcagcta cacttctcac tcagctgcac cctacacttc   2520

tcactcaggt gcacccctt ctgctgtcct ttccccaacg tactgggtcc cgagcgtggt   2580

gggtatttgc cacactgggt gccagctcag cagcccccca cctctcttta ttctctccaa   2640

agctggtctt tctgactatc attgtggtag ggggaggaca gatgctaaag gtggaagctg   2700

acctggaaaa agagacacac ggggtgactg tggcaaagga cagctggaaa agaaactcta   2760

tcacttcttc attggcaacc acaaggcacc tgaggccatg gcactcccag aggctgtgcg   2820
```

```
cagagccaag cctctcaacc tcttctggcc ctgcgtcctg cagcgaagtc tctgctgtaa    2880

gacagtagac tccttcgatg aggtgctcaa aaatgctacc cggggtggtg gtgtctggct    2940

tgcagtctgg cccagttcag agaaagttgc agagatcagg ggccaaggat gtcatagccc    3000

caggttgtcc tcagggtccc aatcctaggg cagggtgtgc atggaagcaa gaactatgga    3060

aacctagctc cagtctgcag gctctgagcc cctagttcct cactccagcg gggctccctc    3120

actgcacaga acccacccct tctgtgtggg cactgctgac cacacagatg acccagaccc    3180

aaagagcctg gcagaagctc tgtggttgga gctgggctcc gtctccaggt ctggttcagg    3240

gggatcagga aggctctttt ccacctgtgg cttcactggc cctttgagat ttcctatctc    3300

accgttactt cagttaccct tgcagggggc cagggagtca agaatatacc gtgttcctcc    3360

agggtttaag ccggccatgc cttcccgaga gcataaccaa cttgacaggg gtgcccagtt    3420

accccacaaa ctgaaggaag gagatccttc ccccatcccc aggagtgctc tcaaccagcc    3480

tcagaaagct tgagaagatg gacccttttgc ccaccagggt taattcctgg tggggcagct    3540

cggctgtgat cagggcaacc aaacctatag gaagccttcc agtgtgagct ggaattagac    3600

tgaacatgtg cttgggcctg cctctcccta gacgcagttg cggggcactc cagggaatga    3660

accagctcaa gtgtgtccct aacagcagcc tggagctacc cccaatccct cacagcctga    3720

ccctcctcat tccatcagat gcatttgtag aatcggggca aatttcctta tttatttatg    3780

gcccatgcct ttccccctct tcatcctgat cccgttttgc tttgaagaga ccccagtaac    3840

caaaaaacag cctccagaag ccaaaaccat gcctggatct cccatagctt ctcctttgct    3900

tccaggagaa agttcactga aaaaaaaata tcttctggct tcttgtgtgt acagagacaa    3960

cagaactcgg tggggaaacg ggaatctttt ctgcaccaaa gctgcttcta aagcagaaag    4020

cagtggggct cttggtgttt catgctgcct tatttatatt aaaggaagaa ttaaatcttg    4080

caaggagtaa aaatggtcac tgtttggttt ttaaacttca ggaaatctgt gaggctccca    4140

gggcagagtt ggggacaggg gggtggattt cctattgaca aagcagaagc tttcactccc    4200

ttttattct tacactttca ggagacttta aaaataaca aaacagaaca tttctaccct    4260

gtctttgagg caacttgtgt gctgcccgca gggctccaga aagggccttt gaaagctggc    4320

cgtagggtgg attccagcct aagaccttat ttcacagagc taatgtcagc gagagatata    4380

ggagctggaa ctaacaggag cgtttggttt tagagaaaga ggaggtgtct tggataactc    4440

t                                                                    4441
```

<210> 116
<211> 120

<212> DNA
<213> Homo sapien

<400> 116
acttacaaac tgtggtcatg ttaagataca gaacatcagc caagaaccag aaccaactcc   60

ttaacataac atagagtggg ccctgcccac cccccaatac aatacattta agataagctt   120

<210> 117
<211> 1977
<212> DNA
<213> Homo sapien

<400> 117
ttcacccggc cctcgcctgt caccttcaca gagaaggggc tgcctgcagg aagaaagcac   60

ggcccacgcc cctccagtca catactgcct gtgggccctg gtgtagtgag ggggggctgcc   120

gaggcactgc tgcactcacc aggcacgtgc tggtcggcaa acttgatgtt gatgatgtag   180

ttgcctggct ctgtggggca gtaggtcacc tggcgggaca ggtgcctggc tgctacaaac   240

catgcaatga gccatgcccc gccctggaca cccccgccca gcatctgggc ctccacgctt   300

gggaccgtgg gagcggccaa cagagctatg tctggagaca tatgataaac cacctcagcc   360

cccaccaagc cgccgcaccc gtagaccaga ccccaaggac cctggccacc atgggccaga   420

gagcattacc ttcatctctg gctctgctga ccggcccttt gagtccccca cctgctgcct   480

gctctggcga ccctgggtgt gggagtggtg ccgggctgcc ttctgcttcc gcccgctgcc   540

gggattgcct ccagcgctgt ggaggcctgt gtgcggggat gcagcccctg cctgtctact   600

gaggactccc actgagggga ctgctgaagc caactggtgc caaggagcac aatggagtgc   660

cccccagccc tgatcgtgca cccccccagac cggcgggatg gccaggcggg ctgcaagtca   720

accatgggca gcagcttcag ctaccccgat gttaagctca aaggcatccc tgtgtatccc   780

tacccgagag gccacctccc cagcccctga tgcggactcc tgctgcaagg agccactggc   840

cgatccccca cccatgcgag cacagcctgc ccagcacctt gccagtagt cctcgtggct   900

ccgaggagta ctattctttc catgagtcgg acctggacct gccggagatg ggcagtggct   960

ccatgtcgag ccgagaaatt gatgtgctca tcttcaagaa gctgacagag gctgttcagc   1020

gtacaccaga tcgatgagct ggccaagtgc acatcagaca ctgtgttcct ggagaagacc   1080

agtaagatct cggaccttat cagcagcatc acgcaggact accacctgga tgagcaggat   1140

gctgagggcc gcctggtacg cggcatcatt cgcattagta cccgaaagag ccgtgctcgc   1200

ccacagacct cggagggtcg ttcaactcgg ctgctgccc caaccgctgc tgcccctgac   1260

agtggccatg agaccatggt gggctcaggt ctcagccagg atgagctgac agtgcagatc   1320

```
tcccaggaga cgactgcaga tgccatcgcc cggaagctga ggccttatgg agctccaggg    1380

tacccagcaa gccatgactc atccttccag ggcaccgaca cagactcgtc gggggcaccc    1440

ttgctccagg tgtactgcta acccctgcca ggcccagctg ccacaccctt tctgggagaa    1500

gcatggccta cagaatgaag aggggggacca ggaacccctg tgggagaggc ttagacctga    1560
```
gcagtgccc actctggctc ctcctgcctt ggctgactgg gttcctggac catgtgcatt   1620
```

tcactgggcc atgggatcta catctccttg catccccagc tggtctgatc cctgccaggg    1680

ccccttcctt cctgctcatg gtcttcaggt ggcctgatca tggaaagtaa ggagttaggc    1740

attaccttct gggagtgaac cctgactcca tccccctatt gccaccctaa ccaatcatgc    1800

aaacttctcc ctccctgggg taattcaaca gttaaaagaa gcttatctta aatgtattgt    1860

attgggggggt gggcagggcc cactctatgt tatgttaagg agttggttct ggttcttggc    1920

tgatgttctg tatcttaaca tgaccacagt ttgtaagtac ctcgctcgcg accacgc      1977


<210>  118
<211>  182
<212>  DNA
<213>  Homo sapien

<400>  118
catgttctct aatgcatgct ccgacggcgc atgtgatgga tcgcggcgag tgaaaagcaa     60

gagccagaat taagaggttg ggtcagtctg gcagtgagtt catgcattta gaggtgttct    120

tcaagatgac taatgttcaa aaattgagac atctgttgcg gttctttttt tttttttttc    180

cc                                                                   182


<210>  119
<211>  875
<212>  DNA
<213>  Homo sapien

<400>  119
ggtcgcggcc gaggtaccac attggtccac ttgacactaa ccaatcgatc attttttttt     60

aatcaagaaa gctagattct atcagataaa atcactgctt ctaaagagtt taaatctagt    120

tagaaaaagt tatagaaatg tttgcaaaga taagtaacag atagagtcag tagaggataa    180

gatcaaaaac aaaaccaagc aaaagatgag ttcaggggag tttgccatca agtggcaaaa    240

ctgacttact tagggaagaa agttataaaa caggaaaata tgagatgaac cttgagtgat    300

gtggaagatt tagataaatg gaaaggaagg agaaaatgga gttctttagg tggttgtaat    360

tggaggagga aatgaataca cacatcttgt tgacttaaac ccagacattc agcagctctc    420

tatacatatc tggaaaagac tgcacagtca cctcctgtct ctcaccccag gtattactta    480
```

```
gaattattat catatttccc ttcctttaaa gtaagtaagg gtgatggtga caatatggag       540

aactatgatt tttccattaa cctaataata attgtattta ttgagttctg ttaagcattt       600

tacatattaa ctcacttaag cctttcaaca gcctgggcaa aataggtatt attatccccc       660

attttacagg caaagaaaac tgaggtttaa ggtaactgtg ccgaaagtgc catataacag       720

ggctcacatt cagtatctgc agttgcaagc tcatgatcta tagtgccaag ttgcatatgg       780

tagtccatgt cacattatta ccctttttata tccctggaat tttcatgggc aaccattagt       840

attcatttta atatcactaa acttccagcc ctgat                                  875
```

```
<210>    120
<211>    987
<212>    DNA
<213>    Homo sapien

<400>    120
ggtcgcggcc gaggtaccac attggtccac ttgacactaa ccaatcgatc atttttttt         60

aatcaagaaa gctagattct atcagataaa atcactgctt ctaaagagtt taaatctagt       120

tagaaaaagt tatagaaatg tttgcaaaga taagtaacag atagagtcag tagaggataa       180

gatcaaaaac aaaaccaagc aaaagatgag ttcaggggag tttgccatca agtggcaaaa       240

ctgacttact tagggaagaa agttataaaa caggaaaata tgagatgaac cttgagtgat       300

gtggaagatt tagataaatg gaaaggaagg agaaaatgga gttctttagg tggttgtaat       360

tggaggagga aatgaataca cacatcttgt tgacttaaac ccagacattc agcagctctc       420

tatacatatc tggaaaagac tgcacagtca cctcctgtct ctcaccccag gtattactta       480

gaattattat catatttccc ttcctttaaa gtaagtaagg gtgatggtga caatatggag       540

aactatgatt tttccattaa cctaataata attgtattta ttgagttctg ttaagcattt       600

tacatattaa ctcacttaag cctttcaaca gcctgggcaa aataggtatt attatccccc       660

attttacagg caaagaaaac tgaggtttaa ggtaactgtg ccgaaagtgc catataacag       720

ggctcacatt cagtatctgc agttgcaagc tcatgatcta tagtgccaag ttgcatatgg       780

tagtccatgt cacattatta cccctttttta tatccctgga atttttccat gggcaaccat       840

tagctatttc atttaataat cacctaaaac ttttcagtct tctgattaaa attacgctgg       900

agtgatagaa tgtattttca tgatagaaat tgggaaaaaa aatggggaat gaagtttatc       960

agcatttcag acttgttttt tttttttt                                         987
```

```
<210>    121
<211>    295
```

<212> DNA
<213> Homo sapien

<400> 121
cgtggtcgcg gcgaggtaca taaagctatg attttgcatg ggaactcatt taaattaaag   60

ttaccaaggg aattccatat gtaaactttt cctggaacta tgaacttctg agacttcaga   120

aagattttga ctgtgtaggt tattctgtgt tgcgctatgg ggtccgcctt tgtgttgctg   180

agctggagag cgtgcctctg ctgccgcgct gtgtcagtag tggggattgc acttttgttt   240

ccagctacag gccaaatttg agcaccttga gagacttcac caagaagaga gaatg   295

<210> 122
<211> 3210
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (954)..(1013)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (1958)..(2054)
<223> a, c, g or t

<400> 122
tagtgtaaat ctactatga tgagtatttt tatatgtaaa gctttctctg aatttaggat   60

ttttttaagc ctagatctca ggacattgaa agactatgga aaaatagaat acagttttaa   120

cattcttgac atagttgaca attgacactt gctttccagt gatgtttact agtacagttt   180

tcaataactg tttactgcat atattttatt tggaaaatag tgttgttgtt tttttccttt   240

ctggtaattt ctttctatac tttgcatctc ttatttttat tgagcatgga cttgagagac   300

tttaagaagt tttgtaggga aaatacacac cgagaaaata aaaactctag gaaaagttca   360

caatgtttta aaaatagttt tgtacataaa gctatgattt ttgcatggga actcatttaa   420

attaaagtta ccaagggaat tccatatgta aacttttcct tgaactatga acttctgaga   480

cttcagaaag atttgactgt gtaggttatt ctgtgttgcg ctatggggtc cgcctttgtg   540

ttgctgagct ggagagcgtg cctctgctgc cgcgctgtgt cagtagtggg gattgcactt   600

ttgtttccag ctacaggcca aatttgagca ccttaagaga cttcaccaag aagagagaat   660

gaagcttgaa gaaaggagag acttttggaa gaagaaataa ttgctttctc taaaaagaaa   720

gctacctccg agatatttca cagccagtcc tttctggcaa caggcagcaa cctcaggaag   780

```
gacaaggacc gtaagaggta agaggcccag ccaccctcag gttgctgccc tgcccacact    840

tgtcacattg ccctgtcgga tcttcctagc gcttcttact tctgcttcct tatgctttgt    900

cttccttctc caactaaatg tcagctcctg gagaggagag accttgtccc tctnnnnnnn    960

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntttgcca   1020

aaatgaatga atgaacaaaa taaaaataca tcacagtgtg aaaaggatca gttagctggg   1080

ggaaaatggc tgctcttatt gaatagccca gctgtggccc tagtacacag ctaatggctg   1140

ctgacctacc atgagttatt ttgaatttca tgtctaaata aagctgtgcc ctttgttggg   1200

gaattataga cataagatag tattttattg aattaattct taggttcagt tttttagaac   1260

aaattctact gatactgatt ttgtgagaat ttttatttta ataagggaac caggctgtcg   1320

attcgaactc ctgtgcattg atgtcagagc ttgtgaaacc aatggtggac gtaaagacgc   1380

agagaaaggt agagagggcc acagtgcaag ggggcagcca tgagtagcat gtggatgata   1440

atcgcaaggc gtgtaggttt ggggtatgtg ttaaaatcag ttacccaagt tttagaaaat   1500

aagtttattt ttcctttttg ataatttcct tctgtacttt gtgtcccttg ttttatttct   1560

cccacttaag tatccctgtc ggtttaacta tttggctctt gaggaaattc atcatgcctt   1620

gttctattca gaatgctcat ttgggggact ctgcctcagt ttactctagc tacctctgtg   1680

ctagcagcgt tgcatgctcc catgttcccc acagagcaac acatctggtt taatgctctc   1740

actgcatcta tttcagaccc attttcagaa tattgcaact caactttaaa ataggaaaac   1800

ataaccttgg cccattggtg gctttcaatt tttaaatatg gagaagtaaa ccacaggact   1860

ttggcagatt ttattggctt atatatttta caggtatttt tgtttgtttg ttatgttttt   1920

ttggaaaaga ggaaggaatt ctcatgtatg atctttcnnn nnnnnnnnnn nnnnnnnnnn   1980

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   2040

nnnnnnnnnn nnnnttattt ttgaaagaat aaatagtata aaagctgtat tttattcaag   2100

cattgaattt agaaagataa actataaatt tattactgct tttcaacatg ctttggattt   2160

taaagctaat ggatctttta ttaatacctt ttttcctttc atcttaaccc agtgttacta   2220

aaattagatt tcccattttt tccctatat gaaagataat ttacatttac cttgtaaaaa   2280

ttatcaccct gctccacttg agaaccctgc tgttgtttgc aaaatcagga ccaagcccat   2340

attttttgag agctctctag aagaatttat cttcaagaaa atatggtttg gtgtttttgg   2400

ttttttcttt tcttttttcaa agtcccatgg ccagatatcc tataatatac tagatgcatg   2460

tttgctaatt tttacttgaa ttttttttaa attgtaccaa tcaaaaggtt cttttttcttt   2520

ccagctccaa ttttttgtaa aacagaagtt ccagagcaca gaaggtcatc atcacaagca   2580
```

```
aactttatta aaaaaaaact agaagtgtgc tttgattttg ctgttatttg ttttatcact   2640

tctatatttg gtgaacagcc acagttactg atatttatgg aaaagtactt tcaagtacaa   2700

ggtcaataca taagccagag tgaatgatac tacaagttga gcatctctaa ttcaaaaatc   2760

tgaaatccag aagcttcaaa atctgaatct ttttgagcac tgacttgacc ccacaagtgg   2820

aaaattcccc acccgacacc tttgctttct gatggttcag tttaaacaga ttttgtttct   2880

tgcacaaaat ttttgtataa attactttca ggctatatgt ataaggtgga tgtgaaacat   2940

gaattatgta attagagtcg ggtcccgtag tgtatatgca gatattccaa acctgaaatc   3000

caaaacactt ctggtcccta agcattttgc actaagggat actcagcttg tacctatata   3060

ttcctatata ttcactgttg ttagaaatgt ttaagttgct gttctgtgat gaatctaaat   3120

cttttctctt gctaccaagc tattgtcact gcagtgcatt ataccaaaga gcgaagtcag   3180

tgccactgaa aatacagaac cattatatcg                                    3210


<210>  123
<211>  662
<212>  DNA
<213>  Homo sapien

<400>  123
gcgtggtcgc ggcgaggtac ctgcatctaa aatagaattt attttttcttg agacacgtct    60

ttcaggcaga ggaaaggtaa tgggcacaca aaccttgatc atcttcttat aaaacaaggc   120

agcatccaca tttcaatact gtagcatatg aaataatttc tcaattccta ctctgtcata   180

gcttaaatga cttactgatt aaaatatgag taacaataat tctggagctg aaagacattc   240

tcaagccaaa aggtaacatt aaacaatgtt ttactttaaa tttaatgtca tgtagggtca   300

ctaaaaacaa aatgtaaggg ataaatgtaa gtgcataaaa cagagataat accaatttcc   360

acaaatacaa cttttattat ccaaaatcat cttggaagga cttttttctaa tatgcccatt   420

ttctaaataa gattaaccat ttgatgggaa tatttccaat tgtatcacct ccttccttga   480

cttttttcttc atcaacttag ggcctgggtt gtaggcactg tggctctttg ggatagttaa   540

atgggtgcaa tttggctgag accgcccctg tcttaaatgg cccaggctac agggcttgcc   600

aaatggcttg tggtttgcaa cctcttcctt tgatatccat tgaagaacac atgtcctacc   660

ct                                                                   662


<210>  124
<211>  1845
<212>  DNA
<213>  Homo sapien
```

<400> 124

```
tgtcagattg atggcctgtg ctgttgagta gttccgtctg attgacgtgg cgattcggat        60

gtggtcgggt gtggtgagtg gctgggtggg ctttcggtgg gtggtgtgtg tgcggccggt       120

ggtttgtgtg tgcgtgtgtc gcggcggtgt gggctgtggg tcggacggag ggcctggtgg       180

cgttgttaag aggctcgggt gtcggcgggg gtgtgttctg ttgggggctc gtcgtgtccg       240

ttcggtggtc cggcgtggtt gtgtggatat cgtggtgtcg cgtggttgcg tggctgcgct       300

ggtgcgggcg tggcttatgt tgtgtttttaa tgcgttgctc gtggggtcgg tggggtcgtg       360

gcggtgtggt ggtgtgtatg tgtggtgttt gttcgcatgg ggcgtgttgt atgtgttggt       420

ggccgcggta ggagtccggc catctcctga tttattcttt tacagttttc tatgtttttga       480

attgatatca attcttagaa taaaatgcag tacctgcatc taaaatagaa tttattttttc       540

ttgagacacg tctttcaggc agaggaaagg taatgggcac acaaaccttg atcatcttct       600

tataaaacaa ggcagcatcc acatttcaat actgtagcat atgaaataat ttctcaattc       660

ctactctgtc atagcttaaa tgacttactg attaaaatat gagtaacaat aattctggag       720

ctgaaagaca ttctcaagcc aaaaggtaac attaaacaat gttttacttt aaatttaatg       780

tcatgtaggg tcactaaaaa caaaatgtaa gggataaatg taagtgcata aaacagagat       840

aataccaatt tccacaaata caactttat tatccaaaat catcttggaa ggacttttttc       900

taatatgccc attttctaaa taagattaac catttgatgg gaatatttcc aattgtatca       960

cctccttcct tgactttttttc ttcatcaact tagggcctgg gttgtaggca ctgtggctct      1020

ttgggatagt taaatgggtg caatttggct gagaccgccc ctgtcttaaa tggcccaggc      1080

tacagggctt gccaaatggc tttggtttgc aacctcttcc tttgatatcc attgaagaac      1140

acatgtccta ccctcttgat tgcaagcttc tatctgctat tggctatcag gagcataaca      1200

gataagttct aaggtccttc cagttccaaa agccattgac caaccctgtg aggcactatg      1260

agagattgga gattactgag gaatctcttc caataacata tgatatataa aggtaattgt      1320

gattctatga agagtgaata aaaattgaaa acaaaaccaa tcttgtttaa actattaaat      1380

gaagtttttaa aaaataatgg agtgggtaga tgtattgcct atcaaattaa aattcaggga      1440

acacgtgtca gttatcacct ttataagtat gatctataag gttgaattaa ctaaagatct      1500

aaccctaaac taagtgagat attactgggt tactaaatat agatgaatgg cttccttttt      1560

cctttaaaga tggaagaatc tcaaaagtat gcctgaatca gaagcagagg actcatgttc      1620

taatgacacg tctgatcatc accctgagtt ccataaagct atagcatatt gtagtagaaa      1680

gtatatcagc atgtgagtgg agagatttaa gggtatagat ctctacgtat ttccagctct      1740
```

```
gtcaccaact ggtgacatga ctttgggcag aaactgtctt attgattccc tcgtgccgaa      1800

ttcttgctcg aggccaaatt ccctatagcg aacttattga acaga                      1845


<210>  125
<211>  306
<212>  DNA
<213>  Homo sapien

<400>  125
gcggcgccgg gcaggtacat aagtgtcact cgcctaatta aaaacattga gtaaaccaag        60

tttttatata gactacccctt gccatatgat gctcttttc tctaataata tgcagtttaa       120

atcctgagga atcaatgccc agcatttcac cacatctgaa ctctgtgtgg gcattcttca       180

ctcgcctaca aggggtaaac aaggctacca gaacttgaat ttgacttata gggagctacc       240

caggaagggg aaagcccttg ggacttttttc caaaacaatc ttctatttga actgttcatc      300

agccaa                                                                  306


<210>  126
<211>  2049
<212>  DNA
<213>  Homo sapien

<400>  126
aaaaaaaaaa gtaaaacaaa aataaagtct atgcccatta agacgtcttc taattcagtt        60

gtgattgtct gctcctactt aaaaaaatat ttaagcttga tgtttaatta ttccctttca      120

gcaaatttgg atcagaaaat aaagtatgt gacaagatca ggtcaccttg aatttccaca       180

caatctcaag acactgaata gcaaaaaagt aacattacac agtaatgatt aggatatttc      240

cttagacttt gctggatctt tggtcttaag gtaacatgta aaagtagtga agcctttcct      300

ttcatggccc tgtgcaatgt aacggttttc tgcctcctct tcagctggaa gcgttagtgg      360

tagtatgggc acagaatata tgtacactgg cgatgctgac catgcctccc aggtaccctg      420

gctctgggtt ccttgaccta gggaacaaga ttggatgagg cagatctttg agcccatgtg      480

actatagaat ttgctgatga tataatttta caataacaat ggataggaat tttacctctc      540

ttttttattag tttaatatta tttaatatta tgtacataag tgttcactcg cctaattaaa     600

aacattgagt aaaccaagtt tttatataga ctacccttgc catatgatgc tcttttttctc     660

taataatatg cagtttaaat cctgaggaat caatgcccag catttcacca catctgaact      720

ctgtgtgggc attcttcact cgcctacaag gggtaaacaa ggctaccaga acttgaattt      780

gacttatagg gagctaccca ggaaggggaa agcccttggg acttttttcca aaacaatctt     840
```

```
ctatttgaac tgttcatcag ccaaagtagt ccactgaggt gacaaagctt tcagaaatac        900

aaagatggga agataaaggt aacactggcc cacttggggc tttgacattg gattgggtgg        960

actgaataaa cacagcctag gtggcctggg cttgagcctc acttacttct ccttgataca       1020

tagttcctgg tctaccttct gacccttttt ctaaaatagc cagtgtctat ttcactaggc       1080

catttactta caagttccca gcttttaggg aaaaagagg gaggggggag catctagttt       1140

tgaattagat atacatctta gaagtaatga gctattggca gctgttaaat cagattcagc       1200

cacaaaccag aattctttct tgttgaacaa gaccaatgag ttagatgact ttaataattc       1260

cacttttctc tccctctctt ctcctcttcc tgaaatcaga gagatgagaa actactcttt       1320

gaaatacctc cagaggcgtt ttattgtgtt cctttcccct ccaagcagct ccctttatac       1380

aattttgctc aggcaaccaa ggacagagta tcggcagaaa catggagtgc ttttgtatag       1440

gccacctgta cataaaagtg taattattta tttaattttc ccatttgtat catattaaag       1500

ctttgtacag tgttttaagt tctgttttaa aattattttg tattttattt ttataaccta       1560

gtaataaaat attcattccg catgcaaaaa aaaacacaca cacaacccaa acaaccaaaa       1620

acaaacagaa ccaaaagata gaaaccaaac acagcaacag acagacacaa gagaagacga       1680

aaacaaccac acaaacagca cacacaaccg cagcggagaa ccaacaaagc caaacgcaag       1740

acagcacaac aagggacaaa acacacacgt agcacaaagc agccgcagaa ccgaacacac       1800

atctaaagac aggcgacaac aacatagcag gccgtagcac cgacaaccac taaaccataa       1860

ctatccagcg gagatcagat cacagaagcc gacacagaaa gaaaagcatg tatgcaacgc       1920

atgacaccgc agggcggata aaaacactcg taggcgggac cgccgcagaa cgatcgaagg       1980

ctaacaaaca agctagtaga tcacaagtac gtgaccacgc cctcttatct ataaaggagg       2040

aagagggag                                                            2049


<210>   127
<211>   286
<212>   DNA
<213>   Homo sapien

<400>   127
acatctggtt gcggagaaag gaaaaacttc tcaaagaaga atttgaagtg agctttaagg        60

gttgaatgga atttttactg ttagaggtag agaaatacaa tatcataaag aaagatgtga       120

tccctacaag aggattacgt ggtaagttga aagacattaa acagtccaac ctggtcattg       180

tcaaaactat atacgttggg cacagaactg aagaccaggt gtcaaaggag gatggctctg       240

tcccctttgt gtccccagtg cctaaagcag tgtttggtgc aagctt                     286
```

<210> 128
<211> 12421
<212> DNA
<213> Homo sapien

<400> 128

```
agcccacggg atcgcccacg cgtcggggca ggtcaaggag gaggctgaaa gagcctgagc      60

tgtgccctct ccattccact gctgtggcag ggtcagaaat cttggataga gaaaaccttt     120

tgcaaacggg aatgtatctt tgtaattcct agcacgaaag actctaacag gtgttgctgt     180

ggccagttca ccaaccagca tatccccact ctgccaagtg caacacccag caaaaatgaa     240

gaggaaaaca aacaggtgga gactcagcct gagaaatggt ctgttgccaa gcacaccaca     300

gagctaccca acagattcct atggagttct tgaattccag ggtggcggat attccaataa     360

agccatgtat atccgtgtat cctatgacac caagccagac tcactgctcc atctcatggt     420

gaaagattgg cagctggaac tccccaagct cttaatatct gtgcatggag gcctccagaa     480

ctttgagatg cagcccaagc tgaaacaagt ctttgggaaa ggcctgatca aggctgctat     540

gaccaccggg gcctggatct tcaccggggg tgtcagcaca ggtgttatca gccacgtagg     600

ggatgccttg aaagaccact cctccaagtc cagaggccgg gtttgtgcta taggaattgc     660

tccatggggc atcgtggaga ataaggaaga cctggttgga aaggatgtaa caagagtgta     720

ccagaccatg tccaaccctc taagtaagct ctctgtgctc aacaactccc acacccactt     780

catcctggct gacaatggca ccctgggcaa gtatggcgcc gaggtgaagc tgcgaaggct     840

gctggaaaag cacatctccc tccagaagat caacacaaga ctggggcagg gcgtgcccct     900

cgtgggtctc gtggtggagg ggggccctaa cgtggtgtcc atcgtcttgg aatacctgca     960

agaagagcct cccatccctg tggtgatttg tgatggcagc ggacgtgcct cggacatcct    1020

gtcctttgcg cacaagtact gtgaagaagg cggaataata aatgagtccc tcagggagca    1080

gcttctagtt accattcaga aaacatttaa ttataataag gcacaatcac atcagctgtt    1140

tgcaattata atggagtgca tgaagaagaa agaactcgtc actgtgttca gaatgggttc    1200

tgagggccag caggacatcg agatggcaat tttaactgcc ctgctgaaag gaacaaacgt    1260

atctgctcca gatcagctga gcttggcact ggcttggaac cgcgtggaca tagcacgaag    1320

ccagatcttt gtctttgggc cccactggac gcccctggga agcctggcac ccccgacgga    1380

cagcaaagcc acggagaagg agaagaagcc acccatggcc accaccaagg gaggaagagg    1440

aaaaagggaaa ggcaagaaga aagggaaagt gaaagaggaa gtggaggaag aaactgaccc    1500

ccggaagata gagctgctga actgggtgaa tgctttggag caagcgatgc tagatgcttt    1560
```

```
agtcttagat cgtgtcgact ttgtgaagct cctgattgaa aacggagtga acatgcaaca   1620

ctttctgacc attccgaggc tggaggagct ctataacaca agactgggtc caccaaacac   1680

acttcatctg ctggtgaggg atgtgaaaaa gagcaacctt ccgcctgatt accacatcag   1740

cctcatagac atcgggctcg tgctggagta cctcatggga ggagcctacc gctgcaacta   1800

cactcggaaa aactttcgga ccctttacaa caacttgttt ggaccaaaga ggcctaaagc   1860

tcttaaactt ctgggaatgg aagatgatga gcctccagct aaagggaaga aaaaaaaaa   1920

aaagaaaaag gaggaagaga tcgacattga tgtggacgac cctgccgtga gtcggttcca   1980

gtatcccttc cacgagctga tggtgtgggc agtgctgatg aaacgccaga aaatggcagt   2040

gttcctctgg cagcgagggg aagagagcat ggccaaggcc ctggtggcct gcaagctcta   2100

caaggccatg gcccacgagt cctccgagag tgatctggtg gatgacatct cccaggactt   2160

ggataacaat tccaaagact tcggccagct tgctttggag ttattagacc agtcctataa   2220

gcatgacgag cagatcgcta tgaaactcct gacctacgag ctgaaaaact ggagcaactc   2280

gacctgcctc aaactggccg tggcagccaa acaccgggac ttcattgctc acacctgcag   2340

ccagatgctg ctgaccgata tgtggatggg aagactgcgg atgcggaaga accccggcct   2400

gaaggttatc atggggattc ttctaccccc caccatcttg tttttggaat ttcgcacata   2460

tgatgatttc tcgtatcaaa catccaagga aaacgaggat ggcaaagaaa agaagagga   2520

aaatacggat gcaaatgcag atgctggctc aagaaagggg gatgaggaga cgagcataa   2580

aaaacagaga agtattccca tcggaacaaa gatctgtgaa ttctataacg cgcccattgt   2640

caagttctgg ttttacacaa tatcatactt gggctacctg ctgctgttta actacgtcat   2700

cctggtgcgg atggatggct ggccgtccct ccaggagtgg atcgtcatct cctacatcgt   2760

gagcctggcg ttagagaaga tacgagagat cctcatgtca gaaccaggca aactcagcca   2820

gaaaatcaaa gtttggcttc aggagtactg gaacatcaca gatctcgtgg ccatttccac   2880

attcatgatt ggagcaattc ttcgcctaca gaaccagccc tacatgggct atggccgggt   2940

gatctactgt gtggatatca tcttctggta catccgtgtc ctggacatct ttggtgtcaa   3000

caagtatctg gggccatacg tgatgatgat tggaaagatg atgatcgaca tgctgtactt   3060

tgtggtcatc atgctggtcg tgctcatgag tttcggagta gcccgtcaag ccattctgca   3120

tccagaggag aagccctctt ggaaactggc ccgaaacatc ttctacatgc cctactggat   3180

gatctatgga gaggtgtttg cagaccagat agacctctac gccatggaaa ttaatcctcc   3240

ttgtggtgag aacctatatg atgaggaggg caagcggctt cctccctgta tccccggcgc   3300

ctggctcact ccagcactca tggcgtgcta tctactggtc gccaacatcc tgctggtgaa   3360
```

```
cctgctgatt gctgtgttca acaatacctt ctttgaagta aaatcaatat ccaaccaggt   3420

gtggaagttc cagcgatatc agctgattat gacatttcat gacaggccag tcctgccccc   3480

accgatgatc attttaagcc acatctacat catcattatg cgtctcagcg gccgctgcag   3540

gaaaaagaga gaaggggacc aagaggaacg ggatcgtgga ttgaagctct ccttagcga   3600

cgaggagcta aagaggctgc atgagttcga ggagcagtgc gtgcaggagc acttccggga   3660

gaaggaggat gagcagcagt cgtccagcga cgagcgcatc cgggtcactt ctgaaagagt   3720

tgaaaatatg tcaatgaggt tggaagaaat caatgaaaga gaaacttta tgaaaacttc   3780

cctgcagact gttgaccttc gacttgctca gctagaagaa ttatctaaca gaatggtgaa   3840

tgctcttgaa aatcttgcgg gaatcgacag gtctgacctg atccaggcac ggtcccgggc   3900

ttcttctgaa tgtgaggcaa cgtatcttct ccggcaaagc agcatcaata gcgctgatgg   3960

ctacagcttg tatcgatatc attttaacgg agaagagtta ttatttgagg atacatctct   4020

ctccacgtca ccagggacag gagtcaggaa aaaaacctgt tccttccgta taaaggaaga   4080

gaaggacgtg aaaacgcacc tagtcccaga atgtcagaac agtcttcacc tttcactggg   4140

cacaagcaca tcagcaaccc cagatggcag tcaccttgca gtagatgact aaagaacgc   4200

tgaagagtca aaattaggtc cagatattgg gatttcaaag gaagatgatg aaagacagac   4260

agactctaaa aaagaagaaa ctatttcccc aagtttaaat aaaacagatg tgatacatgg   4320

acaggacaaa tcagatgttc aaaacactca gctaacagtg gaaacgacaa atatagaagg   4380

cactatttcc tatcccctgg aagaaaccaa aattacacgc tatttccccg atgaaacgat   4440

caatgcttgt aaaacaatga agtccagaag cttcgtctat ccccggggaa gaaagctggt   4500

cggtggggtt aaccaggatg tagagtacag ttcaatcacg gaccagcaat tgacgacgga   4560

atggcaatgc caagttcaaa agatcacgcg ctctcatagc acagatattc cttacattgt   4620

gtcggaagct gcagtgcaag ctgagcaaaa agagcagttt gcagatatgc aagatgaaca   4680

ccatgtcgct gaagcaattc ctcgaatccc tcgcttgtcc ctaaccatta ctgacagaaa   4740

tgggatggaa aacttactgt ctgtgaagcc agatcaaact ttgggattcc catctctcag   4800

gtcaaaaagt ttacatggac atcctaggaa tgtgaaatcc attcagggaa agttagacag   4860

atctggacat gccagtagtg taagcagctt agtaattgtg tctggaatga cagcagaaga   4920

aaaaaaggtt aagaaagaga aagcttccac agaaactgaa tgctagtctg ttttgtttct   4980

ttaatttttt tttttaaca gtcataacca ctaatgggtg tcatcttggc catctaaaca   5040

tcatcaattt ctaaaaacat tttccttaaa aaattttgga aattcagact tgatttacaa   5100
```

```
tttaatgcac  taaaagtagt  attttgttag  catatgttag  taggcttagt  tttttccagt  5160

tgcagtagta  tcaaatgaaa  gtgatgatac  tgtaacgaag  ataaattggc  taatcagtat  5220

acaagattat  acaatctctt  tattactgag  ggccaccaaa  tagcctagga  agtgccctcg  5280

agcactgaag  tcaccattag  gtcactcaag  aagtaagcaa  ctagctgggc  tcagtggctt  5340

atgcctgtaa  tcctagcact  ttgggaggct  gaggtaggcg  gattgcttga  ggccaggagt  5400

tcaagaccaa  cacggccaat  gtggcgaaac  cccgtctcta  ctgaaaaata  caaaattagc  5460

cgggtgtggt  ggtgggtgct  tgtagtctca  gctacttggg  aggctgaagc  aagagaattg  5520

cttgaatcca  ggaggaggag  gttgcagtga  gcccagatca  tgccactaca  ctccagcctg  5580

ggtgacagag  tgaggcactg  tctcaaaaaa  aaaaaaaaaa  aaaaaaaaga  tactgaacta  5640

ggcacttgac  atccaagatg  tccacttggc  ccttttctaa  gtgtacttca  ctttgttttc  5700

attcctcctc  taaagctttt  taacaaactg  tcactcatgt  tctaaaaaca  aacaaatgtc  5760

tttcatctca  ttttttactc  agcattatct  atcaaaggga  ctggatgtcc  catctagttt  5820

gtactttagt  ttctagctca  ttacatagga  aatgcaaata  aaaaacacaa  tgagatacca  5880

cttcacaccc  actaagatgg  ccataactta  tttttttaa  aaaaggaaa  aggaaaataa  5940

taagtgttgg  tgaggaagtg  gacagaaatt  ggaattctca  tacattgctg  gtgggaatgt  6000

ggaatggttc  aactgctgtg  gaaacagtt  tgtctgttcc  tcaaaaagct  aaacatagaa  6060

ttaacatatg  acccagcagt  tccactccta  gatatatacc  caagagaatg  caaaataggc  6120

attcaaacaa  atacaggtac  acaaacattc  atagcagcac  tattcccaat  agccaaaagt  6180

cagaaacaac  ccaaagtcca  tcaatgaatg  agtggataaa  taaattgtgc  tataaacaca  6240

taatacaatt  ttatttggcc  ataaaaatga  agtgttgata  catgctacta  tgtaaataaa  6300

tctcaaaaac  ttgtactaag  tgaaagaagc  cagacacaaa  aggtctcata  caattcgatt  6360

tatataaaat  agcaagaata  gataaaacca  tagagacaga  aagcagattg  gtggttgctg  6420

ggggctggag  gaaggaagga  atggagagta  tctgcttaat  gggatggggt  ttccttttag  6480

aggagaacat  ttttttttgga  actttaaata  aaggtggtgg  ttatgcaaca  ttgttaacaa  6540

tactaagtgg  cactgaactt  ctcactttaa  aatagttaat  tttatgttat  gtgaagttta  6600

cctcaataaa  aaaattctta  aaaaaaaaaa  ctcagtgata  tccaaccatt  aaaaaatata  6660

agttacatag  ctcgtatata  atcaacttac  ttattactgc  actatgaggg  gcacccagat  6720

atgtaagaca  gagtcccaac  ctttggttgt  tggaggacta  tctaaggata  cagagattaa  6780

taaaaataaa  agaactacca  cgaaagaagt  gccctccaag  tacaaagaga  gttcaaatat  6840

gtacatctgg  ttgcggagaa  aggaaaaact  tctcaaagaa  gaatttgaag  tgagctttaa  6900
```

```
gggttgaatg gaatttttac tgttagaggt agagaaatac aatatcataa agaaagatgt    6960

gatccctaca agaggattac gtggtaagtt gaaagacatt aaacagtcca acctggtcat    7020

tgtcaaaact atatacgttg ggcacagaac tgaagaccag gtgtcaaagg aggatggctc    7080

tgtccccttt gtgtccccag tgcctaaagc agtgtttggt gcatgcttgg tgattggtaa    7140

atgtcaaaga aaaagataaa agataaaata tagccgggcg cggtggctca agcctgtaat    7200

cccagcactt tgggaggccg agcttaacat tgagaaaaga aaggaaatgc aacaagaaaa    7260

gcagaaagca cttgatgtag aagcaagaaa gcaggttaac aggaagaaag ctttactgac    7320

tcgtgtccag gagattcttg acaatgttca ggttagaaaa gcacctaatg ccagtgattt    7380

tgatcagtgg gagatggaaa cagtttactc taattcagaa gtcagaaact gaatgttcc     7440

tgctacattt ccaaatagct ttccaagcca tacggaacac tctactgcag caaagcttga    7500

taagatagct gggattttgc cattggataa tgaggaccaa tgtaaaactg atggaataga    7560

cttagctaga gattcagaag gatttaattc tccgaagcaa tgtgatagtt ccaatattag    7620

tcatgtagaa aatgaagctt ttccaaagac ctcttcagca accccacaag aaactcttat    7680

ttctgatggt cccttctcag taaatgaaca acaggatcta ccacttttgg cagaagtcat    7740

cccagatccc tatgtaatga gtcttcagaa tctgatgaaa aagtcaaagg aatatataga    7800

aagagaacaa tctagacgca gtctgagagg tagtatgaac agaattgtta atgagagtca    7860

tttagacaaa gaacatgatg ctgttgaagt ggctgactgt gtaaaagaga aaggccagtt    7920

gacaggcaaa cactgtgtct cagttattcc tgacaaacca agccttaata aatcaaatgt    7980

tcttctccaa ggtgcttcca ctcaagcaag cagcatgagt atgccagttt tagctagctt    8040

ttcgaaagtg gacataccta tacgaactgg ccatcccact gttctagagt ctaattctga    8100

tttttaaagtt attcccactt ttgttaccga aaataatgtt atcaaaagtc ttacaggttc    8160

atatgccaaa ttacctagtc cagagccaag tatgagtcct aaaatgcacc gaagacgttc    8220

caggacatca tcagcgtgtc acatacttat aaataaccca ataaatgcct gtgaattaag    8280

ccctaaagga aaagaacagg caatggactt aattattcaa gatactgatg aaaacacaaa    8340

tgtgcccgaa attatgccaa agttaccaac tgatttagcg ggagtttgtt caagcaaggt    8400

ttatgtgggc aaaaatacat ctgaagtcaa agaagatgtg gttttaggta aatcaaatca    8460

ggtatgtcaa tcttcaggaa atcatttaga aaataaagtt actcatggac ttgttactgt    8520

ggaaggtcag ttaacatccg atgagagagg cgcacacata atgaacagta cctgtgctgc    8580

gatgccaaag ctgcatgaac catatgccag cagtcagtgt atagcaagtc caaactttgg    8640
```

```
aactgtgagt ggactcaagc cagccagtat gttagagaaa aactgcagtt tgcaaacaga   8700

actgaataag tcttatgatg taaaaaaccc ttctcctttta ttgatgcaaa accagaatac   8760

gagacagcag atggacacac ctatggtgtc ctgtggaaat gaacaatttt tggataacag   8820

ttttgagaaa gttaaacgga gacttgattt agatattgat ggtttgcaaa aagaaaactg   8880

cccttatgtc ataacaagtg gaataactga acaagaaagg caacatttgc cagaaaaaag   8940

ataccctaag ggatctggct tcgttaacaa gaataaaatg ttaggaacta gttccaaaga   9000

aagcgaggag ttactaaaaa gcaagatgtt agcttttgaa gaaatgcgga agagactaga   9060

agaacagcac gcccagcaat tatcactact catagctgag caggaaaggg aacaagaaag   9120

actgcaaaag gtttttagtc tggaaataca agcaaaattt aacaaaataa ctgcagtggc   9180

aaaaggattt cttactcgta gacttatgca gacagataag ctgaagcaac ttcgacaaac   9240

tgtaaaattg cgagctgcct tgtacggtat tcatgacata ttctttgtaa tggatgcagc   9300

tgaaagaatg tctattctac atcatgatcg agaagttcgc aaagagaaaa tgctcaggca   9360

aatggataaa atgaaaagtc cacgagtggc tctttcagct gcaacacaga agtctcttga   9420

taggaagaaa tacatgaatg ttgggaatag caggtacgag tggatatact ttcctactca   9480

tactgagctg aacactggag ggcccgttct ggagatgatc cttttccctg tcataggtca   9540

ccatctcatg aacaaccaca gaccaccacc cccgaatgaa aacatggcgt ctgcagaagg   9600

tgctgtgcgg ccgctgcggg cggccagct gcccttcaca aacatggcgg ccgaggggtg   9660

cggggagtgg cggggtaagg atgggaagcc gagcagacgg ccccagaaca agcggtcatg   9720

tgactgggaa gatggccgtc tttccttgtt tattattaag gatattacaa agaatacaga   9780

tgaacagcca gatgaagagc tacgtagggt cacagagtca aagacaaaga aagtgaaccg   9840

gaaaggaagc acttcttcca cgtcctcctc ctcctccagc tccgtggtgg acccgctgag   9900

cagcgtcctc gatgggactg accccctctc catgtttgca gccactgctg accccgcagc   9960

cttggcagct gccatggaca gctccagaag gaaacgtgat agagatgata actccgttgt  10020

aggatcggat tttgagcctt ggaccaacaa acggggagaa atccttgccc ggtacaccac  10080

taccgaaaag ctgtctatta atctgtttat gggatctgaa aaaggcaaag ctgggactgc  10140

cacattggca atgtcagaga aggtgcggac ccggctggag gagctggatg actttgagga  10200

gggttcccaa aaggagctgt tgaacttgac tcagcaggat tacgtgaacc gcatagagga  10260

gctcaaccaa tcgctgaagg atgcctgggc ctcagaccag aaagtgaagg ctctaaaaat  10320

agtcatccag tgttcaaagc ttcttttcaga caccagtgtt attcagttct acccaagcaa  10380

atttgtcctt atcaccgaca tacttgatac atttggaaag ctcgtgtacg agcgcatctt  10440
```

```
ttccatgtgt gtggatagcc gcagcgtctt accaggatgt ttttgtagtt acgtggaggc   10500

atccatcctg aaatgtaaca aattcctctc caaaacggga atttcagagt gcctgccccg   10560

gttgacatgc atgatcagag ggatcggaga cccactagtg tcggtgtatg cccgtgccta   10620

cctgtgccgg gtgggaatgg aagtggcccc acatctcaaa gaaaccctaa ataagaactt   10680

ttttgacttc ctccttacgt tcaaacagat tcatggggat acggtccaga accagctggt   10740

ggtccaagga gtggagctcc catcttacct cccccttgtac ccgcctgcca tggactggat   10800

cttccagtgc atctcctacc atgcccccga ggctctgctg accgagatga tggaaaggtg   10860

taagaaacta ggaaacaatg ccttgctgtt gaattctgtg atgtctgcct ccgggctga   10920

gttcatcgcc acaaggtcta tggatttcat tggcatgatt aaagagtgtg atgaatctgg   10980

tttccccaag catcttcttt ttcgatcact gggattaaac ttggccttgg ctgatcctcc   11040

tgagagtgac cgacttcaga ttctcaacga agcttggaaa gtcatcacta agctgaagaa   11100

cccacaggac tacattaatt gtgccgaagt gtgggtggaa tacacctgca agcatttcac   11160

gaaacgagag gtgaataccg ttttggcaga tgtcatcaag cacatgactc cagatcgtgc   11220

atttgaagat tcctaccccc agcttcagtt aataattaag aaagttattg cccacttcca   11280

tgacttctca gttctttct cagtggaaaa atttctgccg tttctggaca tgttccaaaa   11340

agagagtgtg cgggtggagg tttgcaaatg catcatggac gcctttatca agcatcaaca   11400

agagcccacc aaggacccgg tcatcttgaa tgcccttttg catgtttgca agaccatgca   11460

tgactctgtg aatgcactca ctcttgagga tgagaaaaga atgctgtcat atttgattaa   11520

tggatttata aaaatggttt cctttggccg tgattttgaa caacagctga gtttttatgt   11580

tgagtccagg tcgatgtttt gcaatctgga gcctgttctt gtgcagttga ttcatgcctg   11640

tgttgcctac tgcttcatca ccatcccctc cctggcgggc atcttcacac gtctcaatct   11700

ctacctgcat tctggtcagg tggccttggc caaccagtgc ctctcccaag ctgatgcttt   11760

tttcaaagcc gctataagcc ttgttccgga agttccaaag atgattaata ttgatgggaa   11820

gatgcggcca tcggaatcgt tccttctgga attcctctgc aatttctttt ctactttatt   11880

aatagttccg gatcatcctg aacatggggt cctgtttctt gttcgagagc ttctcaacgt   11940

gatccaggac tacacctggg aggacaacag cgatgagaaa atccgcatct acacctgcgt   12000

cctgcatctc ctctccgcca tgagccagga gacgtacctt taccacatag acaaagtgga   12060

ctccaacgac agcctctacg ggggagactc caagttcctg gcagaaaaca acaagctgtg   12120

tgagacggtg atggctcaga tcctagagca tctgaaaacc ctggccaagg acgaggccct   12180
```

gaagcgccag agctcgttgg gcctttcctt ctttaacagc atcttggccc atggggacct   12240

acgcaacaac aagctcaacc agctctccgt caacctgtgg cacctggcac agaggcacgg   12300

ctgtgcagac accaggacca tggtgaaaac gctagaatac atcaagaagc aaagcaaaca   12360

accagacatg actcatctga cggagctggc cctcagactc cctctgcaaa caaggacctg   12420

a   12421

<210> 129
<211> 1494
<212> DNA
<213> Homo sapien

<400> 129
cggccgccgg gcaggtacta ggttctgaca tcagtgaagt agcttccatt tcatttctct   60

gagtgcttca ctcagcaaga gactatgcga caactacgtg ctgggtgttc cagatgtatt   120

gaactctgga caaactgctt gacttcagcc tcttgaacta ttgttaatac acgggcagct   180

tgttatatag ctcccattgg tatacaactt gctaattaaa tggaaaatac ccttgggccc   240

acgtgccatt gtgcttgtgc tatacaacca tggtaaattc cccaggcatt ttattgggcg   300

cagtgtccac atgggccgtg tgttggtatt caacccttgg aagtgctcag gggaagattc   360

tgaagaaacc cattccttag tcgccaaagc gattggtttg acatgcccgc cggctctatt   420

ctaacctaac agacagaatt acggaagaca ttttatgtgc ttgttgtgtc cgctatgtgt   480

ttgtggctgc ggtgacaaac ccagttgcta aacacatacc ttccaaggcc tttacctttt   540

gcaacgcaat gtggcctttg cacacaagta ctggagaggg aagattaccg aactatatga   600

aaacccctct gtgcggaacg gtggcccatg gaacttggct atttggccac atggctagtt   660

aaggccacct aaaacggcaa aattttgggt tggtcgccta agcgtttggt caaatcagtt   720

gcccctaatg tggccctttg ggtgcacggt caactttatc cgccgaagtt tccgattcgt   780

aatagaatcg tagcatcatg acatgaaacg acacacacac acacaaaaca cactacaata   840

gcagcgctca ctgatgcagc gagcggtaaa taaccaccct ccgacagaga ggggcggacc   900

gaccacaaaa tagagacgca gtgtagagta ctacacacca cccaggttgt tagttgggta   960

gtgcagacac aacattcttc ttgtgaatat aaagcattcc cgcgagtgat ccttcctact   1020

accagtatta tcatccctac tcatgctatg ctacatcgt gcaacaatta ttcatgcacg   1080

tgcgagtgat agcgacacaa acatacggtg atacatctaa ctagacgcta acgcacatca   1140

gcatccaacg agaatatatt atgaacagat ggagcacgac tgaagtcgta ggttgattcg   1200

cacatgctgg acgtatgagt atccggagat gtcaactgac aggagtgcat gtgggcacag   1260

```
ggcttacggc agtagtagca ccatacggct gacctagaga tggattggta aatcaaagta    1320

gtgagggagc ggcggaatgg gaagcgtgac ggggatgtga tgttagctgt cggagttgga    1380

cggagggagg catgggagga acgtgtgagc aatagagccg gcgaggtgtc tacaggaagg    1440

gagagcagag gcgagcacgg agcgatcgct ggagctgcag ctgcccaggc ggcg          1494
```

<210> 130
<211> 1774
<212> DNA
<213> Homo sapien

<400> 130
```
tgtgagttcc acagaagatt tcagttgaaa agcactatta atgtttccta ctgtggacag      60

catttagagg aaacatttta agcagcacgt tcatatttcc tctgttcacg tacttagtca     120

acagctcttc attgtgcgct tatcgtgtgc aaggcagtgt tctacatgct atggggtaaa     180

caagatgaca aatccctgtc cccttagaaa agagcttgca accacagtgg ctgttggaaa     240

gaagcaacag tggtgctaaa agacaccagg taaactggaa aggaaaattc atcatatagc     300

gtactaggtt ctgacatcag tgaagtagct tccatttcat ttcttgaggc ttcatcagaa     360

gagatatgcg acaatacgtg ctgggtgttc cagatgtatt gaactctgga caaactgctt     420

gacttcagcc tcttgaacta ttgttaatac acgggcagct tgttatatag ctcccattgg     480

tatacaactt gctaattaaa tggaaaatac ccttgggccc acgtgccatt gtgcttgtgc     540

tatacaacca tggtaaattc cccaggcatt ttattgggcg cagtgtccac atgggccgtg     600

tgttggtatt caacccttgg aagtgctcag gggaagattc tgaagaaacc cattccttag     660

tcgccaaagc gattggtttg acatgcccgc cggctctatt ctaacctaac agacagaatt     720

acggaagaca ttttatgtgc ttgttgtgtc cgctatgtgt ttgtggctgc ggtgacaaac     780

ccagttgcta aacacatacc ttccaaggcc tttacctttt gcaacgcaat gtggcctttg     840

cacacaagta ctggagaggg aagattaccg aactatatga aaacccctct gtgcggaacg     900

gtggcccatg gaacttggct atttggccac atggctagtt aaggccacct aaaacggcaa     960

aattttgggt tggtcgccta agcgtttggt caaatcagtt gccctaatg tggccctttg    1020

ggtgcacggt caactttatc cgccgaagtt tccgattcgt aatagaatcg tagcatcatg    1080

acatgaaacg acacacacac acacaaaaca cactacaata gcagcgctca ctgatgcagc    1140

gagcggtaaa taaccaccct ccgacagaga ggggcggacc gaccacaaaa tagagacgca    1200

gtgtagagta ctacacacca cccaggttgt tagttgggta gtgcagacac aacattcttc    1260

ttgtgaatat aaagcattcc cgcgagtgat ccttcctact accagtatta tcatccctac    1320
```

```
tcatgctatg gctacatcgt gcaacaatta ttcatgcacg tgcgagtgat agcgacacaa    1380

acatacggtg atacatctaa ctagacgcta acgcacatca gcatccaacg agaatatatt    1440

atgaacagat ggagcacgac tgaagtcgta ggttgattcg cacatgctgg acgtatgagt    1500

atccggagat gtcaactgac aggagtgcat gtgggcacag ggcttacggc agtagtagca    1560

ccatacggct gacctagaga tggattggta aatcaaagta gtgagggagc ggcggaatgg    1620

gaagcgtgac ggggatgtga tgttagctgt cggagttgga cggagggagg catgggagga    1680

acgtgtgagc aatagagccg gcgaggtgtc tacaggaagg gagagcagag gcgagcacgg    1740

agcgatcgct ggagctgcag ctgcccaggc ggcg                                1774
```

```
<210>   131
<211>   531
<212>   DNA
<213>   Homo sapien

<400>   131
ccgaggtact taattctttg gcaacaaaca gcaagttttt atggtttaat tgtatttcct      60

ctctagagat cacaatactc tgggtatttt atatcccttc taaaggtcat ttgggttttc     120

aaatgggaag aatagtcaag ctaagctgga ctaaacctaa gtaatatttt atctcatcaa     180

aagaagttat taatctaact gggttagcat gagtcattca tttttttagac atgataaatg     240

ggaaacatat caaatcatta gataaattct gacctggaat tgaattcccc ctttcttaaa     300

atcttttttaa tttgcttttt tcatagactc agtatggaac tcttaactga taagggagag     360

attcttgatc tggaaccgtt ccctgccatt ctcctttttt ctctctgtct aggtagctgg     420

ttccatagtg cccgtcacga gggtccattt cagtttgatg acattagact gcttacactc     480

agctggatgc cttgctgttt gcagcaacat gattttacag tatgctttc t              531
```

```
<210>   132
<211>   4309
<212>   DNA
<213>   Homo sapien

<400>   132
tggggcatga agttctgcca ctaaggcata accagtaccc aagtaggaaa ggattattga      60

tccctggagt aaagattcct agcttgcggg gatctcacta ttgatccccc ggagtaaaga     120

ttcctagctc gcaggaatct tacttgcaca cttaaggaaa ataccagagg gagccactag     180

caaccgaaaa atgaaggaaa gatttaattt ctctacccag gtacaaatcc aatgcatagt     240

atagtatatg ttatatgcag aaagggcact ggaggtgtga gagccctttg ggtaacagct     300

ctgctagttg ttaccttcac acttctcttt cttcttaatc tctggtttct cgtctgaaaa     360
```

```
atgagataat tggactagat taatagttct cagccttttc tagaacaaca aattagatta    420

tctctgaagt cctttccaa aatttcatgc ttccagtctc tccccgtgat tgcatattat    480

ccctaggcta attaaaagtg tgctggttaa tcagtttctt tactttttt tctctctttt    540

ttttattctg tgttcaggta tcatttgacc aacaacttgc tcttaatctt actgcgatga    600

ctgaaatctc caaagaggag agtatagtag ttataggtct agtaataata atcttgtaaa    660

caattcatta tttttttaaaa cttaatgctg tgtgcctaat cagtgttgag tatgactaaa    720

atgtaaatga gaaccaaata tgacactaac gctggcacta aattttattt ttacttgtgt    780

acttaaagta ctttactggc ctgttgggaa attgatttgt ataagattca cacctggttt    840

tggcagaaac agctttttaa agatacaatt aggctgactt aaaaatgttt tttattccac    900

agaatgtatc tttattatgt cattcttacc gtctctctgc ctttttgac catcatgtaa    960

ctacgcagta gtaaatcatg gggtgcaggc tgatgaatta gtagtctttg taaaactaaa   1020

atgtaatgag cataggaaga gacagctctt ctggtgaaca tggcagtttt ccggtaatac   1080

cagccttgat gaataggcta aagacagctg tgtactatgg acattcaact tcactggatt   1140

gcctggctta gcttttcagt tattgtcttg ccgtgaaaca tggtgttgca ctgtacacat   1200

tttagaatag tggcaagaat gttctttaga actgcagata acccaacaga gaataccata   1260

ccaatatatc ggtttctcct gttacataga gatttggtat ttcagtgatg gttatggttt   1320

ttgactcacc tgtgtgtcag tcctgctaga gagacagtat agaatcaaga atttcttgat   1380

gtcttttaa aaatagagat tataatggcc ttgctagttg tcctgtgaag tgacagaccc   1440

ttaattagaa atcttttaat cctgctttcc attttacttc tccaccattt atttttaaca   1500

ttcattctct gaaaatagtt atgatttta gtgtaattgg ctatgtttaa gaaattccat   1560

ttcaaagtct taatatgtaa caatcttcat ttttataaa attgaaggac atttttgagg   1620

caaacttact tttatagctc attttctccc tagttaagga gaattctctg gtttcatata   1680

gagaatggct agctctgtga taccccaccc tctttgtggc ctaccagttg ctgttgtgtt   1740

gcttaaaatt gcagatattc tcataaacat gatgatttt ggcacaggcc tttctttgct   1800

attgatttca aaataaagtt gggcaatccg atttgaacta ctttaataaa cataatttag   1860

cattcctgta atgagaaagt attttcaaaa gataaccaga tttatttcta ggattagaga   1920

tggcaaatac caatgatagt atttttccca agagcaatca cagattaatc tataaatatg   1980

agaagtcgca ttattgtact taattctttg gcaacaaaca gcaagttttt attgtttaat   2040

tgtatttcct ctctagagat cacaatactc tgggtatttt atatcccttc taaaggtcat   2100
```

```
ttgggttttc aaatgggaag aatagtcaag ctaagctgga ctaaacctaa gtaatatttt    2160

ttctcatcaa aagaagttat taatctaact gggttagcat gagtcattca ttttttagac    2220

atgataaatg ggaaacatat caaatcatta gataaattct gacctggaat tgaattcccc    2280

ctttcttaaa atcttttttaa tttgctttt tcatagactc agtatggaac tcttaactga    2340

taaggagaga ttcttgatct ggaaccgttc cctgccattc tcctgtttt ctctctgtct    2400

aggtagctgg ttccatagtg cccgtcacga gggtccattt cagtttgatg acattagact    2460

gcttacactc agctggatgc cttgctgttt gcagcaacat gattttacag tatgctttc    2520

tcaaagcttt gcattcttaa tggagatatc aaatggtgta attccaaata taaatatgtt    2580

tatgacacta atcatatgct tttaacaata actttttgat aacttattgc cctgtaagtt    2640

aaaccttaca cggagtgact gttgccatca gaaaatcccc tttcacctgc tagagagagt    2700

gaaagtagtg cgtggcctcc acttttcagt taacgagtag caagcttcta gtaggggctg    2760

cttatctgac ccatgtgggg tcttgggcct tgttactttc ctgggttcgt cccttcagct    2820

ggaaaggctg ttgaaaacac ttgccaggaa acagtaaagc tgtgagagaa tcttctagtc    2880

ttagatatag agaaatgagt accagttgat gctaacacga tacttagact ttgaggggct    2940

tccatccaag ctttggcatg aatctgttag acacggtttt cttcactcct ctgataatct    3000

tttttccag aatggttttt tgttgttgtt gttgttaaca aattctaaac atccagtgtt    3060

acttttgtt ttgtttgttt tgtttgtttt tgttttgttt tgtttgccct tcaggaaagt    3120

ccttttcga gtaggtattg attgttccct ggaaactctc agcagtgtct gtgcaggctc    3180

tgtgcatgct ttgtatgagt tcggcttgaa caatgcattt gaagtcacct gggatgtcca    3240

gttctggcat gtcttcattg attgtgtttt taaacatgtt tcatgtttca tgtcattttc    3300

caaacctcac tttacatctt actcagagaa gttaatcaag gaatgaaatt tctaggggga    3360

tagggatgat gagggtgggt tgggggcttg agtgaagtca acttggggta tttgctttaa    3420

agtgttttct aaagcagttc ctaacagtat ttagagattc cctgggatgt ttgtggctca    3480

acttattctg gacaaagtgt gtgtgggggt ggtcttactg agatttgcat tcttaatgca    3540

ggacaggctc taaatttcat ctgtactcta aatttgtgat tgaatccaag aagataacag    3600

agacagtgct cctgttgtaa tgtttctggc aagtgctccc taaaatgcac atcgaattct    3660

gttttctggg ccttttctcc aatggtgcta ggagataccg ttgatttctg cagctcttct    3720

cagtggtggg aagaagtctt tgggattgtt gagcaagggg cagctggacc atccactaaa    3780

tttttttgtt caagacacat tagagaccct cctgtatatc tagtaagtca taataaaggt    3840

gcttgggaaa gccttaaatt tgaagacaca tggaggcggt agaaaattaa acttgtaaga    3900
```

ggagaaaaac atgccattag gtaacgcaga gttgtaacta ctggctaaga ctcaatggaa   3960

cttccacttg ctctaaaacc agggaaggga gtgggacgat aagtcttttg aagacatcag   4020

ctcactgtgc tgagagaggg accaaactca aggaaacctc tgatctatac attcaactgc   4080

tgcatttttt tataaataca tgtaaatgtc ctgttgtaat atttgatctt ggaaataaaa   4140

acaaaaactt ttcgtagaaa aaacacacac gacaaaaaca aaatttgggg ggccggcgcc   4200

aagaagtttc aaccacatgt gtggggccgg cccaggtgaa ggaaatggca agtggccaag   4260

aaccggccag aagggggggtt tcccaaaaaa cgcgcgggcg cgcgtttga   4309

<210> 133
<211> 730
<212> DNA
<213> Homo sapien

<400> 133
gccgccgggc aggtacaacg tggagatttc cctctgggaa aatcacccag caagtgaaat   60

ccgacccaga gggggacaca ggagtgctcc cgtgggacag cgtggccacc actgggaggg   120

gctctggcag tttttcttgt tttttacgct gcgatgtctg tgaatcttga gagcccagct   180

gatgcgttgt aacctcacct gggggcgatg tggaacattc caggcctggc aggggctatg   240

cctgccatgc agacctcacc cgagccatct caccctgggt ctgtcagagt cccacgtgct   300

gtcgcccctc acccaccccc gacggggcca tgctcctggt catgctgtga ttcattcatc   360

attccatggg caggtgtggg attgtctctg tgtttctgtc tgctttttaa agaagatgag   420

gtaagcatgg aaaacaaaac aaacgtggta accccatcac tcagacgtgt ccactgttag   480

cattcgggaa caggtgagag cagtctggcg cacaggtttt aaggctggct ggcccagact   540

ttggtcttgt gctgtgtgat cttggggaaa tcactgattt ctgagccttt ttcccagctg   600

ctttttctct tggggctggt agaaggaata agagagtgag tgtcaaaaaa aaaaaaaaaa   660

aaagcttggg gttaatcatt ggcaaatatg ttcccggtta aaattgtttc ggtcaaatcc   720

atttggagaa   730

<210> 134
<211> 226
<212> DNA
<213> Homo sapien

<400> 134
gcccgggcag gtactgggtt gcagcaagct atgatgccct gaggttccct gaagacaagt   60

aagaacacac tcaacttgtc actcagaaac gcagcccttta aaggcttcca gataagaata   120

atgactgggt aaagccaggc tgccacctaa gctgaagcta caggtaggtg actaaggaaa   180

cactgatgtc aggccagcct aggccaactt ctccatgtgt tctttg   226

<210> 135
<211> 937
<212> DNA
<213> Homo sapien

<400> 135
tttttttttg agatggagtc tcgctcaagt gcccaggcta gagacagtgg ctcaatctca   60

gctcactgca acctccgcct cctggattca aacgattctc ctgcctcggc cttctgagta   120

gctgggatta caggcatgcc ccaccacgcc cggctaattt ttgtattttt ggtagagatg   180

gggtttcacc atattgtcca ggctggtctc aaacccctga cctcaggtga tctggccacc   240

tcagcctttc aaagtgctga gattataggc gtgagccact gtgcccagcc gcagaaaagc   300

ttcttacctt gagcaggggc atctctcggg cctgctggat taaaaggtgc atttcgttga   360

tctgctgccg cacaaggggc ggtactgggt tgcagcaagc tatgatgccc tgaggttccc   420

tgaagacaag taagaacaca ctcaacttgt cactcagaaa cgcagccctt aaaggcttcc   480

agataagaat aatgactggg taaagccagg ctgccaccta agctgaagct acaggtaggt   540

gactaaggaa acactgatgt caggccagcc taggccaact tctccatgtg ttctttgcga   600

caccaagctt taagtggatc cctcttggag cctgactccc acaatcaggg agagctgaaa   660

gtaagtgcca cagcactgtg gattctcaat tccgcagggg gcaaccacg gctgtggat   720

tttcattctt gcttatactt caatcaagat cacaaaacgt ttaagatcat gagctgcttt   780

aatttggaag aaagtacaga tgacagaatc tgggacattt tcttcccttg caagtagatg   840

ctataaggct cagagactta aaataaactc aaactaaggc ataatcattg aaatgattcc   900

agttcagaag ttttagtgct taaatggcag cctgagg   937

<210> 136
<211> 96
<212> DNA
<213> Homo sapien

<400> 136
gcccgggcag gtaccaatca attttgaaaa tgaaagggaa aatacttatc tttcctatat   60

gaattgggaa aataaaagga tatgaaaagg taaata   96

<210> 137
<211> 151
<212> DNA
<213> Homo sapien

<400> 137
aaaatgtagg cagcaaaagt ggaagaggag aggcagctgg tgcactaatc caggtgagag   60

gtaaagatgg atgggtaggg ctgaaggatg gtggggcagg tggtgagaag tgacttggtt   120

ctggagacat atgaaggaag atggtcaggc a   151

<210> 138
<211> 604
<212> DNA
<213> Homo sapien

<400> 138
cgtggtcgcg gcgaggtact ttcttagacc agtgtaacct cacacctcag tttggctttt   60

ccaaccctga cttgaaaggc atatttgtat ctttttatta gtgatagtga agctgtgaca   120

ctaacctttt atacaaaaga gtaaagaaag aaaaactaca gcgattaaga tgagaacagt   180

tctgcagttg ttgaactaga tcacagcatt gtaggcagaa taaaaaatgt tcatatctga   240

gaatattcct ttcgccatct tttcccaagg ccagacctcc tggtggagca cagttaaaag   300

taacattctg ggccttgtaa tcggagggct gtgtctccag ctggcagcct tgttttaata   360

tataatgcag gactgtggaa aacagttggc atagaatatt ttcacctaaa aaagaaagaa   420

aagacataca aaactggatt aattgcaaaa agagaataca gtaaataccc atataactgg   480

acaaagctag aagaaccttt agaagatttg tctgaaaaca gatttcaaga gtgagctttt   540

atacactgct cactaatttg cttgattact accaactctt cttaaagtta acacgtttaa   600

ataa   604

<210> 139
<211> 4461
<212> DNA
<213> Homo sapien

<400> 139
tgagttttcc cctgttggcc agggatggtc tcgatctcct gacctcgtga tctgtccacc   60

tcggcttccc caagtgctgg gattacaggc atgagccacc gcgcccagcc tagccatatt   120

tttatctgca tatatcagaa tgtttctctc ctttgaactt attaaccaaa aaggaacatg   180

cttttcatac ctagagtcct aatttcttca tcatgaaggt tgctattcaa attgatccat   240

cattttaatt ttaccaatgg ctcaaaaatt ctgttcagta aatgtctttg tgactggcca   300

atggcataaa ttatgtttaa gattatgaac ttttctgaca gttgcagccc atgttttccc   360

tacgatacca gatttccatc ttggggcata ttggattgtt gtatttaaga ccgtcagaat   420

aatgatagtg tgtggtctcc agaggtagtc agaatcctgc tattgagttc tttttatatc   480

```
ttccttttcc attttttatt accattttgt ttgtttagac tacactttgt agggattgag    540

gggcaaatta tctcttggag tggaattcct gtgttttgag ccttacaacc aggaaatatg    600

agctatacta gatagcctca tgatagcatt tacgataaga acttatctcg tgtgttcatg    660

taatttttttg agtaggaact gttttatctt gaatattgta gctaactata tatagcagaa    720

ctgcctcagt ctttttaaga aggaaataaa taatatatgt gtatgaattt atatatacat    780

atacactcat agacaaactt aacagttggg gtcattctaa cagttaaaac aattgttcca    840

ttgtttaaat ctcagatcct ggtaaaatgt tcttaatttg tctgtgtaca ttttcctttc    900

atggacagac cattggagta cattaatttt cttaatctgc catttggcag ttcatttaat    960

ataccatttt ttggcaactt ggtaactaag aatcacagcc aaaatttgtt aacatcaaag    1020

aaagctctgc catatacccc gttactaaat tattatacat ccagcagatt ctgggatgta    1080

ctaacttagg gttaactttg ttgttgttga taatactaga ttgctccctc tttaattctt    1140

cttctggtgc aaggttgctg cttaagttac cctgggaaat actactacaa ggtcaaattt    1200

tctagtatct tacagcctga ttgaaggtga ttcagatctt tgctcaatat aaatggattt    1260

tccaagattc tctgggccat ccttgaccca caggtgatct cgctggagta tattaactta    1320

acttcagtgc cagttggttt ggtgccatga gatccataat gaatccagaa cttcaccatt    1380

gcttagatat aagagtccct tggaagaata atgccactga tgatgggggt cagaaggtgt    1440

attaactcaa catagagggc ttttagattt ttcttcaaaa aaatttcgag aaaagtattc    1500

ttttacccstc caaacagtta acagctctta gtttctccaa atatgctctt tgatttactt    1560

attttttagtt aaagatggta atttattgaa caatgaaatc cgtaatatat tgatttaagg    1620

acaaaagtga agttttagaa ttataaaagt acttaaatat tatatatttt ccatttcata    1680

attgttttcc tttctctgtg gctttaaagt ttttgactat tttacaatgt taatcactag    1740

gtaacttgcc atatttctgg ttctatatta agttctatcc tttataatgc tgttattata    1800

aagctggttt ttagcatttg tctgtagcaa tagaaatttt actaagtctc tgttctccca    1860

gtaagttttt tcttttctca gtaagtccct aagaaaacat ttgtttgcca ctcttactat    1920

tcccaatctt ggattgttcg agctgaaaaa aaatttgatg agaaacagga ggatcctttt    1980

ctggtgaata taggttcctg ctttaagaat gtggaaatcc attgctttat ataactaata    2040

tacacacaga ttaattaaaa ttgtgagaaa taattcacac atgacaagta ggtaacatgc    2100

atgagttttg aatttttta aaaacccaac tgtttgacaa aatatagaac ccaaattggt    2160

actttcttag accagtgtaa cctcacacct cagttttgct tttccaaccc tgacttgaaa    2220
```

```
ggcatatttg tatctttta ttagtgatag tgaagctgtg acactaacct tttatacaaa   2280

agagtaaaga aagaaaaact acagcgatta agatgagaac agttctgcag ttgttgaact   2340

agatcacagc attgtaggca gaataaaaaa tgttcatatc tgagaatatt cctttcgcca   2400

tcttttccca aggccagacc tcctggtgga gcacagttaa aagtaacatt ctgggccttt   2460

gtaatcggag ggctgtgtct ccagctggca gcctttgttt taatatataa tgcaggactg   2520

tggaaaacag ttggcataga atattttcac ctaaaaaga aaaaaagac atacaaaact   2580

ggattaattg caaaaagaga atacagtaaa ataccatata actggacaaa gctagaagaa   2640

cctttagaag atttgtctga aaacagattt caagagtgag cttttataca ctgctcacta   2700

atttgcttga ttactaccaa ctcttcttaa agttaacacg tttaaataag gtatttctgg   2760

acttcctagc ctttttagcaa gcttagagga actagccatt agctagtgat gtaaaaatat   2820

tttggggact gatgccctta aaggttatgc ccttgaaagt tcttaccttt tctctagtga   2880

tattaaggaa cgagtgggta gtgttctcag ggtgaccagc tgccctaaag tgcctgggat   2940

tgagggtttc cctggatgcg ggactttccc tggatacaaa acttttagca gagttttgta   3000

tatatgtgga tttttctgat aagtagcaca tcagaggcct taaccactgc ccaaaagcga   3060

ttctccattg agagtacata tcttgaactt aagaaattca tttgctctga ttttaatct   3120

tgtaaagttt ttgctaaact caaaacaagt cccaggcaca ccagaaggag ctgaccacct   3180

taggtgttct tgtgatttat ccttacttcc ctatgttgtc atagttgctt ctaaactcag   3240

ctgcactatg gctgtcaaca tttctgatac ttattgggat atgtgccatc cagtcattta   3300

gtactttgaa tggaacatga gatttataac acaggtaata gctgaaggta ccagtatggt   3360

ggtgagactc acacttagtg atccagctaa ggtaactgat gttataatgg aacagagaag   3420

aggccaacta gatagctaag ttcttctgaa cctatgtgta tatgtaagta caaatcatgc   3480

gtccttatgg ggttaaactt aatctgaaat ttacattttt catagtaaaa ggaaaccaat   3540

tgttgcagat ttctttct gtgaggaaat acatggcctt tgatgctctg gcgtctactg   3600

catttcccag tctgttctgc tcgagaagcc agaatgtgtt gttaacattt ttccgtgaat   3660

gttgtgttaa aatgattaaa tgcatcagcc aatggcaagt gaaggaattg ggtgtcctga   3720

tgcagactga gcagtttctc tcaattgtag cctcatactc ataaggtgct taccagctag   3780

aacattgagc acgtgaggtg agatttttt tctctgatgg cattaacttt gtaatgcaat   3840

atgatggatg cagaccctgt tcttgtttcc ctctggaagt ccttagtggc tgcatccttg   3900

gtgcactgtg atggagatat aaatgtgtt ctttgtgagc tttcgttcta tgattgtcaa   3960

aagtacgatg tggttccttt tttatttta ttaaacaatg agctgaggct ttattacagc   4020
```

```
tggttttcaa gttaaaattg ttgaatactg atgtctttct cccacctaca ccaaatattt    4080

tagtctattt aaagtacaaa aaaagttctg cttaagaaaa cattgcttac atgtcctgtg    4140

atttctggtc aattttata tatatttgtg tgcatcatct gtatgtgctt tcactttta    4200

ccttgtttgc tcttacctgt gttaacagcc ctgtcaccgt tgaaaggtgg acagttttcc    4260

tagcattaaa agaaagccat ttgagttgtt taccatgtta ctatgggact aatttttaat    4320

tgttttaatt tttatttaaa ctgatctttt tttatatggg attacatttt ggtgttcact    4380

ccctaaatta tatggaaacc aaaaaaagtg attgtatttc acatatggaa aaaaaaaaa    4440

aaaaaaaaaa aatatgcggc c    4461


<210>    140
<211>    321
<212>    DNA
<213>    Homo sapien

<400>    140
cgaccggcgc tttgtgatgg atccgcccgg gcaggtactc tggtagccca gtttgcaaga    60

gccaggttcc agcagggatg gtagccagcc tgggcacact tttctgtatt gtatttgaac    120

ctcatttcct gatgctcatc cagaagttcc tggctgggtg agtaggtgaa cagttcaagg    180

ctgtgtggat gaaactctgg catctcttta cagtgctgtc cggcagggca gtgtgaggcc    240

actctgtcct cctttgacct ctttcttctt cagcagccaa atggaggctc tctaaaggtg    300

atgattaact tggcataaac a    321


<210>    141
<211>    1438
<212>    DNA
<213>    Homo sapien

<400>    141
gggggacaca gcactgcctg aagcagcatc ttgtaggtca gccagttccc gttgacacgc    60

agaaagacag tactgctggg gttcattttc tgggaaagcc aggcagagcc tgaggaagct    120

tcatgggaag gcagcatgga acttgagctg agccacggag gatggggaag tgggagaagg    180

tcatcgaggt agctggaaag gagagtgttc ccagggagca ttttagaggt gggaacattc    240

aggtgcatag aggtgagagt ggagatgctc cagggagttt gacagcaagc acttggcagt    300

gatacagggg caggggtaca gtctgaaagt gctggactgg ggtactctgg tagccaagtt    360

ttgcaagagc cagggtttcc agcagggatg gtagccagcc tgggcacact tttctgtatt    420

gtatttgaac cccatttcct gatgctcatc cagaagttcc tggctgggtg agtaggtgaa    480
```

```
cagttcaagg ctgtgtggat gaaactctgg catctctta cagtgctgtc cggcagggca      540

gtgtgaggcc actctgtcct cctttgacct ctttcttctt cagcagccaa atggaggctc      600

tctaaaggtg atgattaact tggcataaac atgccaagct ttcctgagcg tttgccctga      660

attgggctgt ctcttgctgc tctgagacag ggagactggc tgtctggctg accagccctt      720

ggggctgagg tctggctgtc aagttgcagg ttccaggcaa ccagcaattc ctggttgtca      780

cctggctcta gagattagag cagcagtgtt gctcactaga actttgtgca gtgatagtgt      840

tctttaatct gcactgtcta gtactgtagc catgggccac ctgtgacttt caagcccttg      900

aaatgtggct accggccagg cacagtggct catgcctgtt atccaggggt gtccaatctt      960

ttggcttccc tgggccacaa tggaagaaga attgtcttgg ccacacata atatacagta     1020

acactaatga tagctgatga gctttaaaaa aaaaatcaca aaaaatatct cataatgttt     1080

taggaaagtt tacgaatttg tgttgggctg catttgaagt ggtcctgggc cttggtctgc     1140

gggtgggaca aagcttgtta taatcccagc attttgggag gtggaggcag gacgatcact     1200

tgggcccagg agtttgagac caggctgggc aatatggcgg atcccatctc cacaaaaatt     1260

gcaaagttac cgggatggtg tcaggcgcta tagtccagct gcttgggaga ctgagcagga     1320

agaatgctta gctgtaggga cagttgcggg cggatacagt atggcccagc caggcaaggt     1380

gacccgtttc aaaaaaacaa cattggccgg cttataggta ataaacacaa acgatgta      1438
```

```
<210>  142
<211>  368
<212>  DNA
<213>  Homo sapien

<400>  142
ggccgaggtt agcatttaat ctactggaat aagctggttg ctgtggctta tacctgtagt       60

cccagatact tgggaggctg aggcaggaga atcacttgag accagcctgg gcaatatagt      120

gagacctcac ctctaaaaaa gttttttata aatttacttg tctaaagtgg ggaaagggaa      180

attattctgt tttcttattc ttgcttcaag actatgacag atttgaaaga gaattctaaa      240

gcagatttag agaacctgct tctcttctta tctcctaatc cctaaattgt aatttagctc      300

ttatctgtat tgtgttttgt tttggtaaag ggatgatttt tacattgagt tttaaagtag      360

aataagaa                                                              368
```

```
<210>  143
<211>  540
<212>  DNA
<213>  Homo sapien
```

<400> 143

```
gccgcccggg caggtactaa gcatattaca ccagtgtgtg tggcttcaaa tagaagactc        60

tctatctcta ggtatcgaaa tggcgaataa gaattgcagc tctgaaaata taatataaac       120

acattttca gatagcatta tacaaataaa aatactttttg gatactagaa tttggggtta       180

gagctgactt caataagggg aggaaaaaat atgtgcaaag ggaagggagc tcaatttgga       240

ataatatatt tcaaagtatg tggctttgca ttttttaaaat gctaaccaaa aaaaatgtga      300

gatagagtga ccccaaggaa cttttttacag ccagcctctg gataccagat atagcattta      360

caacttctga tatgctagac aaatttttcca tagttttaat tttcttaaag acatatagtg      420

agtgaacacc aacactggga aggaggtagt gttaatttga tcaaatattg atatttcccc       480

actgattcag aaagtgcttg ctctttctct aggatatctc aaaacccttc caattttttct      540
```


<210> 144
<211> 1195
<212> DNA
<213> Homo sapien

<400> 144

```
aaagactgca tctatggccc accttctcat aacctcaaac gcagagtact cattctaaga        60

aacacatgca ttcttgcctt aactgaggac tgaaatacca aacccaacca aaaataacag       120

aactttttaag tgccctgatg gaaatgtaca gtatgagtta catccatcca tctatacaca      180

catacagaca ctcatatgta tatacaatat atacatacaa atgataatag ctataccaaa       240

aatgtgcata tttaatacag ttttaaaaag ccagtagatc atggtataat acaatttatt       300

tccactagtg aatggcacaa atggagaaat gcaaaggagg tgtttcaagt acaatgaagt       360

cattttttcac aggtgaaaat aaatagtatt attccagtgt ccaacataat gtattctaca      420

aaagtttaaa atgccagaca tttagtactt acagaaatag aaagttacta aagtctgctt       480

tatggtctca aaaagacact catagagttt tcaattttttg aaaagggggt gagaaaaaaa      540

ttggtggaag caggagggag tgtccaggat agtttctttta gtgtactgaa tgtttacctg      600

atgtctaggc aaccaaaaat catgactatg ctaaaatgtt ccatttacca acaaatcctt       660

gacctagagt actaagcata ttacaccagt gtgtgtggct tcaaatacaa gactctctat       720

ctctaggtat tgaaatggcg aataagaatt gcagctctga aaatataata taaacacatt       780

tttcagatag cattatacaa ataaaaatac ttttggatac tagaatttgg ggttagagct       840

gacttcaata aggggaggaa aaaatatgtg caaagggaag ggagctcaat ttggaataat       900

atatttcaaa gtatgtggct ttgcatttttt aaaatgctaa ccaaaaaaaa tgtgagatag       960

agtgacccca aggaacttttt tacagccagc ctctggatac cagatatagc atttacaact      1020
```

```
tctgatatgc tagacaaatt ttccatagtt ttaattttct taaagacata tagtgagtga      1080

acaccaacac tgggaaggag gtagtgttaa tttgatcaaa tattgatatt tccccactga      1140

ttcagaaagt gcttgctctt tctctaggat atctcaaaac ccttccaatt tttct           1195
```

<210>   145
<211>   787
<212>   DNA
<213>   Homo sapien

<220>
<221>   misc_feature
<222>   (344)..(634)
<223>   a, c, g or t

<400>   145
```
acatttagag aaggttaaaa gaaacagtga gaaatgtaaa cattcaaaat gataattgaa        60

tctctcagtt gtgggaataa ttatcagaga catgcaactg aaaatgtctc acctttcatc       120

ttttttttctt aattcataaa gttatcttgt agaatttgat gagaccctcc tagtcattct      180

caactggggc ggtgctgtca ccgaatggtg tttgagagtg ttggggctag ggcacatttt      240

tggttgtcac agcaactggg gtggcatttg ctgcccagtg ccaggaatag taacattatg      300

aatgccagga cagtgtgctc agtaaagtct tccatccaaa aggnnnnnnn nnnnnnnnnn      360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      540

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      600

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncgaaaa catcccgtaa aaaaaaacac      660

ccccggttcg cttgtccctt cccccttgtg acaaacttttt tcaaatccag aaagctgcgg      720

gtaatcatgg gcatagggct gttcctgtgg taaaattgtt ttccggccaa tccccaaaac      780

aaaaaaa                                                                 787
```

<210>   146
<211>   193
<212>   DNA
<213>   Homo sapien

<400>   146
```
tggtcgcggc gaggtacagg ccgcctactt actgccctgc ctgacccagg attcttagga        60

ggggaaagtg ctatccctgg ggccaggcag ggagccacag ccactcactg cattctcaga       120
```

```
attctatcct accaccccaa agattgacct gaaagagact cccttcctc agtcatgtag      180

aagtccttta cat                                                        193
```

<210> 147
<211> 661
<212> DNA
<213> Homo sapien

<400> 147
```
tcatgccgag cgcgcgcatg agtgatggat tggtcgcggc cgaggtacag agtcctgtta       60

ttttctctt tggccctatt tggctgctta tattaatgca tcagaacttt atgtataatc      120

atatggattt atacgtaaat taagaaaaaa tgtccatttc attcagttca tatgttctaa      180

acgtattgct gatcattctt aaatgagact ccaggtttac attcttacat aaagtgcagg      240

gatcccgaag ttagccccaa agatcccctt gccttttca gacttgctca aatgttacct      300

tatcagtggg gcctttcctg accacacttt aaaaacctca cacccaccc atgggccttg      360

tcctccttcc cggcttcatt ttttggcata tacttatcaa atgtgaacat atgatgcatt      420

tgctttattt atcatcgatc ttcactcact ggcatgtaag ctctgtgagt gcaaagattt      480

tcatctagct aatcttccag aacagtgtct ggcacagaga aggagctcta tgaatatgtg      540

ttgaatgaat gactatcttt gccttgtaaa ccccatgcta ttggctctct cttcaggtgg      600

ctgaccactg caccccaggg catgctggaa agacaggagt cccaagccct cccttctgct      660

c                                                                     661
```

<210> 148
<211> 1897
<212> DNA
<213> Homo sapien

<400> 148
```
agttttgcgt tgcgccttgt tgcttgcgtc cgtcgtttgt ttgcctgtgg cttctgccgt       60

cttttgtgg gctcgccgtt gcccgtgcct gccgctgtca cccttggcgc cgcctgggt      120

gctggggtcc gcgattgcag tcctttgata gtgttagtga gggggggctgt cgtgcgtgtt      180

gtgtatggtc cgcatggggg agtcattagc atgttgagtt gactgtctcc cggtccgttt      240

aacgtgcgtc tggaaggtac atttttgtaa atcaagtagt tggaactaaa tccaacactg      300

ataattgcca tttcaaacac tgatctgaaa agtgaattag aagctgtaca atatcatcat      360

tagaaattct gcatatggct aataaatatt cctttaaaa ttaatagagt ctaaagtctt      420

ccacatgatc tttacagata gagtgggaca ctatagaatt ctgattatat gatttagatt      480

ttagggatgt tttaacattt tcaaaccact agaaggacat tgggaacaga aagtaataga      540
```

```
gccaacgtca cgtggtaatg atcaatagtc cagttctacg aggagaacaa ttttaagctc    600

ttcactgagg ccaattctgc tgtattctaa ttccttttag gttcttggtg gtagagtaat    660

gagctatgac catctctgga atactggtga ggaaaatggc agcagtaaag aaatgaggaa    720

aatattacct aattaatgat aaagttaggt ccagtacaga gtcctgttat ttttctcttt    780

ggccctattt ggctgctttt attaatgcat cagaacttta tgtataatca tatggattta    840

tacgtaaatt aagaaaaaat gtccatttca ttcagttcat atgttctaaa cgtattgctg    900

atcattctta aatgagactc caggtttaca ttcttacata aagtgcaggg atcccgaagt    960

tagccccaaa gatccccttg cctttttcag acttgctcaa atgttacctt atcagtgggg   1020

cctttcctga ccacacttta aaaacctcaa cacccaccca tgggccttgt cctccttccc   1080

ggcttcattt tttggcatat acttatcaaa tgtgaacata tgatgcattt gctttattta   1140

tcatcgatct tcactcactg gcatgtaagc tctgtgagtg caaagatttt catctagcta   1200

tcttccagaa cagtgtctgg cacagagaag gagctctatg aatatgtgtt gaatgaatga   1260

ctatctttgc cttgtaaacc ccatgctatt ggctctctct tcaggtggct gaccactgca   1320

ccccagggca tgctggaaag gacaggagtc ccaagccctc ccttctgctc tactccaagc   1380

ttttcttctt gggtgcattg actcaagtca ggtagtactt ctctatgtct gagcacagac   1440

gggctgtgtt catgtatttg tacatatgtg tgaatagaca gagaaactag tagcatgggt   1500

atgtggggga atccatcttt tagggagaga tttatctact gtttttgtgt ttagtctcac   1560

ctcagaccag gttaagctgg ccagggctca tagttttcaa agagcaacag aaaaaatctg   1620

tttagcttac attctaagca tgttctcttt atctttcctg aaagctatcc acttttaatt   1680

tcatctcata ctacagagaa aatattattt gaaactgata gctttccaga aggttactga   1740

aatcacttat ttttcagtgt cttcactggc accattcata gtagctaaca ttagccactt   1800

tccgtgggcc tggtgctgtg ttaaagtgct ttacatatat tatttctttt aatccgcaca   1860

atgatccttt caagtaggta ctgttattat tcccaat                            1897
```

```
<210>  149
<211>  254
<212>  DNA
<213>  Homo sapien

<400>  149
ccgaggtacc catctagctt ctggggctcc actgacagct gaggacagtc cacacccgac     60

ctggacccca ccccaccctg ggtctgtcca tctcagtccc ggcctgagcc tctgggccaa    120

agccacctct tctgagcagg caggcagagc gaaagactgg gagcagcaga caggggcaga    180
```

```
gcacggccca tgagcccacc ctccacttcc cagattggtc agagttacat ggtcaccttc      240

cctgcacctg cacc                                                        254
```

```
<210>  150
<211>  1993
<212>  DNA
<213>  Homo sapien

<220>
<221>  misc_feature
<222>  (1822)..(1822)
<223>  a, c, g or t


<400>  150
aaggatcctt aattaaatta atcccccccc cccggggcgg cccagcggat cgtgccgcgg       60

cggccgagcg cagctacagg agggtgtcca gaagccacaa gccatggctg tggggaacat      120

caacgagctg cccgagaaca tcctgctgga gctgttcacg cacgtgcccg cccgccagct      180

gctgctgaac tgccgcctgg tctgcagcct ctggcgggac ctcatcgacc tcgtgaccct      240

ctggaaacgc aagtgcctgc gagagggctt catcactgag gactgggacc agcccgtggc      300

cgactggaag atcttctact tcttacggag cctgcacagg aacctcctgc acaacccgtg      360

cgctgaagag gggttcgagt tctggagcct ggatgtgaat ggaggcgatg agtggaaggt      420

ggaggatctc tctcgagacc agaggaagga attccccaat gaccaggttc gcagccaggc      480

cagattgcgg gtccaagtac cagctgtgcg ttcagctcct gtcgtccgcg cacgcgcctc      540

tggggacctt ccagccagac ccggcgacca tccagcagaa gagcgatgcc aagtggaggg      600

aggtctccca cacattctcc aactacccgc ccggcgtccg ctacatctgg tttcagcacg      660

gcggcgtgga cactcattac tgggccggct ggtacggccc gagggtcacc aacagcagca      720

tcaccatcgg gccccgctg ccctgacacc ccctgagccc ccatctgctg aaccctgact      780

ggtaaacaac tgctgtcaga aaagggctgg gcttgggaag gggaggtgga ggccaggtgt      840

ccccagacct ctaacccttg cccctagcag cctcttcttt gtggagcctc tcagtgtggg      900

cagccctcgc atgctggggt cgggccagct ctccccgaaa ggtcttgacc tgaatgatgg      960

ccggggaagc ctgcgtgtgc ccctttcaga gacggagcac ctgagatgtg ggaggtgcag     1020

catgttcccc tgggcccctc agaaagtcga gcttggaggc cagcctggat ctgtctctcc     1080

cttcccctcc tgggaccatt ctacctgtgt tctttgaccc tcggagcagg gacaggcaag     1140

acaactggca agcttgcagc tgccctgatg gtgcaggtgc agggaggtga ccatgtaact     1200

ctgaccaatc tgggaagtgg agggtgggct catgggccgt gctctgcccc tgtctgctgc     1260
```

```
tcccagtctt tcgctctgcc tgcctgctca gaagaggtgg ctttggccca gaggctcagg    1320

ccgggactga gatggacaga cccagggtgg ggtggggtcc aggtcgggtg tggactgtcc    1380

tcactgtcag tggagcccca gaagctagat gggtaccagg tggggttagg ttcccagagg    1440

actgagggaa tcctgtacag gatgtcccag ggtagatggg gagcaggatt gggacctgct    1500

ctgacagctg gacacatgag ccctggatga gtatggtagg gggtttgaag aatcccctgt    1560

ccacctccca aatccaggcc cggccccctc tggcttggag agcattccaa gcccccaccc    1620

caccccctaga actgccattc ccaagacctc tgtctcccag ccaaccaccc ttggaacttg    1680

cctcttgtcc tgctggaaag atagcagtgt tctcctgact tcgccctact gcatgcagcc    1740

aaataaaagg tgtgcccagt ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    1800

aaaaaaaaaa aaaaaaaaaa anaaaaaaaa aaaacaaaac tattgcttgt gtttccgttt    1860

ggattggctt tgcgtatcta ctttcagtgc tttcgtcatt tccttcttcc tagctgctta    1920

tcatgcgata ggctacactg tgctcctttc tcaattttac ccagttctaa tgggaatggt    1980

gtgtttagat ttt                                                       1993
```

```
<210>    151
<211>    170
<212>    DNA
<213>    Homo sapien

<400>    151
gcgtggcgcg gccgaggtac atactcatat ttataaggac ttcctcacta ggagagattc     60

ctgggttcta cagaataaaa ttcttggcta cttgtcttat agctctgaac agacttattt    120

tcccagagag tatgtttatt atgtaatagc gagttgcctg accccccaaa               170
```

```
<210>    152
<211>    1394
<212>    DNA
<213>    Homo sapien

<400>    152
taggtctgta tagaatacga ctgaaagatt ttgactgttg atttcctttg aagagattct     60

cctgttctcc tcttcagagg aaagagagag gagagaggga gagaggagag aaaagagaga    120

agagagggtg acttttcatt atatgccttt gtaatattta atctcctccc ttttctcacc    180

cccttgagca tgtatgcttt tcaacaatta aaaagattaa aaagctctta aatagataag    240

aatttcttag agcaactagt aagtacacta actgccaatt gttttgaaat gtagacattc    300

tgaaaaatca aaatgattgt gccgaatgta ttttaaaagg ctaaaatatt atagcatttc    360
```

```
aaagtacata ctcatattta taaggacttc ctcactagga agattcctgg gttctacaga    420

ataaaattct tggctacttg tcttatagct ctgaacagac ttattttccc agagagtatg    480

tttattatgt aatagcgagt tgcctgaccc cccaaaaagc tgtgttctat catattaaaa    540

taaggcaaaa tgattacttt cagattaaga aattgtggga ctctagatct tgttatatag    600

tgaagttctt taaaaaactg aggtcttggt tctgaataat agtgggttta cattaattta    660

tttagaattg tcattggggg tatctctgac ctattttat aaaataatct caatttttaa    720

aataggagta aaatgctcat tggcataagc cagtaataat aatttagtat ttttccaagt    780

atttatagtc aatgtgttgc catgaacttt tttaagggat gtttttaatt ttagaagtgc    840

tttaaaaagc aatatggcat ctggctctgt agaagtagaa aacatggtaa cttcaatgtg    900

atatatttgc ttttttcccc tcttaggtct ttggggtaaa aaaaatccaa agtttactca    960

attttatttc tacatatatt acctacaaat tatagaggtg agacctgctt gctgcctgtt    1020

catacctgtc agtgatacta atacctcccg tctgtacagt gtttcatagt ttccaaaggg    1080

ttctcgcatg gttcctcact tgagcctggt gaggaaatac ctgtaaacat gggtagaagt    1140

tttagtccct tgtaaaactc tggtataata tcaaaaccag gaaattgttc acagattcta    1200

aggattgggg aaaagagaaa aataaacaaa ttgctcagga gtagaattga aaaaaagaaa    1260

aaaaaaaaa aaaatttggg ggcgggccga aatttaaaca gttggggggg ccaggtggaa    1320

tggaagggca ggaaacggga gatggtgttc caaaaaagcg gggcgggtga aaaagggcgg    1380

ggggggtacga gggt                                                    1394
```

<210> 153
<211> 368
<212> DNA
<213> Homo sapien

<400> 153
```
gcactgagaa aggatatgga caagtcagtc agcattcaca attaagagaa aaacatctgt     60

gctttggaaa atgttcttca aggatagaga attgtgccct atgtccacca aatttgcatg    120

agatctttat aagattagac agccagtgga taaggcccct tatctttctt catggatggc    180

tgaggaaatt ctccgccttc cctgacatca gctgcataac tgtatttctg cctcgtggaa    240

ataaagtaga tgatcaggca cttgcggttt gttcttaata caagaaagac aatttgattt    300

ttaaaagttt tgatttgtag aataatgtaa gacaatatgt ttctttctac tttggttttt    360

ccattcaa                                                            368
```

<210> 154

<211> 864
<212> DNA
<213> Homo sapien

<400> 154
ttgatatatt gcattcttga gcattaggct tctaggtgat ttgttaaact catagcaggt   60

tttagtacac agtgctgttt atgacagaaa aaaattttat cctacctctg aaataattgt   120

actttctgtg attcagataa aaactttata gaaactccct aatgaaaata ttgaagcatt   180

aaccagaaaa tgagtcagct ttttgtttcc aaaatgatgc aacaggaaaa cctttaacta   240

cttataatcc cgtatagtca ccatcaccac aaagtattga aaatctgttt tctcttttac   300

taagtgtctg cacggtcact tatgtatacc caaagccaga aagatatttt tatctcaggg   360

aaattccaga aatggaaaca tttttgtgta atattgattc atttctgtct caccaaagat   420

gtgttttcca cgtagcaaag aacatcagcc ccacgttata gggaacaagc gagtcccaaa   480

tcgtaccatc tgctgagcac tgagaaagga tatggacaag tcagtcagca ttcacaatta   540

agagaaaaac atctgtgctt tggaaaatgt tcttcaagga tagagaattg tgccctatgt   600

ccaccaaatt tgcatgagat ctttataaga ttagacagcc agtggataag gccccttatc   660

tttcttcatg gatggctgag gaaattctcc gccttccctg acatcagctg cataactgta   720

tttctgcctc gtggaaataa agtagatgat caggcacttg cggtttgttc ttaatacaag   780

aaagacaatt tgattttaa aagttttgat ttgtagaata atgtaagaca atatgtttct   840

ttctactttg gttttccat tcaa   864

<210> 155
<211> 179
<212> DNA
<213> Homo sapien

<400> 155
gcggcgcggt gttatggagt agcgtggttc gcggccgagg tacatgtttt taaaaaatga   60

ctacatgttt cacctggtcc tattttgct atttggacca tacttttaag atgaattgat   120

cttacataca tgttaagtct gatttatctc cccacatttt taaacactaa atgaagctt   179

<210> 156
<211> 1849
<212> DNA
<213> Homo sapien

<400> 156
gcttgatacg ctcctaagga atttgccctc gagcaagcaa ttcggcacga ggctcgaacc   60

cctgacctca agtgatcagc ccgcctcagc ttcccagagt gctgggatta caggtgtgat   120

```
ccactgcacc cggccggcat tatgattttg tgtactcttg aaatggttat ctttgtggat      180

gatttttttt ttttaagctg aaacttacct catgaataac ttgattaaag tagtaggtga      240

ttaaaatttc aatagaatca aatgagacaa aaattttaaa ctgactcatt tgagtttcaa      300

ctttacagtc attgaccata aagcacacta aaaatgtaag ttatttttaa atacatctga      360

aataaaaata cttactaaaa aggaagaagc cgaagatgta tatttagacc agcacacaat      420

tttgatttca attagcctta ttctaatatt tagcttttag atctttcata cacattttca      480

cgtactttgc aattgagacc agaaagactt gtaggtcttt ctgcagaatg agtgggtcct      540

tgcaaagtga gtgggaaact tactcctaga tcagaaatgt ttgcctctct gagtaaaatg      600

tttctttcag atgagccata gaggggcac cttttactca acttttcttt gttttgaaac      660

tttgtttccc atactgtttt cagccttttg tttataatta gaaattgtga gaagcttcat      720

ttagtgttta aaaatgtggg gagataaatc agacttaaca tgtatgtaag atcaattcac      780

ttaaaagtat ggtccaaata gcaaaaatag gaccaggtga aacatgtagt catttttaa       840

aaacatgtac ttggtctttt gtgtgtgtct gttttattcc attagaataa atgtgtcctt      900

gatgtaaatg caaagcattt cttcctgatt aaattgtaga tgtagacttt acaatataat      960

tcaataataa aaagtaatta acctctaaaa aaaaaaaaa aaaaaaaaa aaaaaacac        1020

ttgttgggcg cggcgcgggc ccggagaaaa gttttttaaaa cccttcgtat ggcgcgagga     1080

ggggccccag gtaggggaac ggaacacagg ggccacggcg gtgtagcaag agggaaaacc      1140

cggtggcgaa gaaaaagggc gtggattctc acccaataaa aagcgcgccg gggggggaacc     1200

ggaaggcgtt tgggaaacaa gactctcaga aagagggaga ggcgtcagcg gaggcgcaca      1260

ataaggggg gactcctcac aacaccgggg aggagctccc gaagaggaga cgccccgaaa       1320

tagacaacaa ttacagcccc cgggcgcgcc gggggcagat accagaagac gaagcacgag      1380

acgaagtagc acaagaagaa aggacagaca gaagcgagac gagaggacag aagggaggag      1440

agagaggcgg aggcgagggc gaaaacaagg ggacgacagc aacgagaaga gaaagaaaaa      1500

cacgacggag gaacggggcg gaaaaaggac gagaaagccg agagcaggcg ggcgggggca      1560

cacgggggaa acgaagagca aggaaagaag acaacaggag aggaggggag ggaagcgagc      1620

gaagagcgta gagacgccga gcaacaagaa gctagagaca gcagtagaca cggacagaca      1680

gacacggtga tggtagccgg ggcgggggga catcttgggc gcgaatgctt cgccggggaa      1740

cagacagcgc agggcgagca gagcgaggaa acgcagggaa cgacgcgaca gacaggaggt      1800

cagaagaagg gaagatgagt gcagcgggaa gaccaacgga gaaggagag              1849
```

<210> 157
<211> 903
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (139)..(139)
<223> a, c, g or t

<400> 157

```
ttgtttgttt tttttctttt tttacatttt ttttttttttg tggacgaaac attcacacag      60

aaacagctag gaccagatta cgccagcttc atgagacctc tcctatctgg gcacgttgag     120

ttggctgact ctgggagcnc aggctgttgc ttcccagtct ggtggtgaat cctccatggt     180

ctggttgagt cctttttcaac tagttttttgt gttgttttttt gaacctcaag tcactgactc     240

cttcagcagt ggtttaagga agtatcttaa ttttttaaatc acatgttgac catgcagcca     300

attgttggcc cgtagagtga acaaaaccag accacaagat tgagggcttg gagctggaga     360

aagggaaaag aaaaagcagg ctgtgactct ctggggaaag aactgaaaga tgacactagg     420

aattctcaaa gcgagaggaa aaggaaaggc ccttttttcgg aaatgacctc tgataaacac     480

accctccagg gttacacctg ccactgtgtc ttccacggac agacaagctg cactttagca     540

gtcctgaata cctagagact tccttaacag agagtgggga atctcgtcat cttgcatggg     600

gatgggagct cgaagggaga acctcagcct tccagaaggt tatataaaac cagttgagaa     660

tttccctaag aatggagcag tggacaaaca attgttattg taatccaaat acatgagtct     720

acctacataa tggagaaatg ctaacttaca gaaagcgtca ggcttggtgt tctcgaactg     780

gttttaattt ccttttataa aattacagcg aattatacaa ttacattgat taattgtaat     840

cagttctgag tctagataac aaaacacaac acacacaaac aaacaaacaa cctctcctca     900

aac                                                                     903
```

<210> 158
<211> 368
<212> DNA
<213> Homo sapien

<400> 158

```
gcggcgcccg ggcaggtaca gtggcaacag cattagacta agtggaacat cccagcaggc      60

tgctttagaa tccgctcatt tgactagata cgatgtaatt ggctgtcttt aaaaaacgcg     120

cacacacaca caatctgata ggcatatctc atgcccattc aatatggaat gttcttcgct     180

tgctgaattt aagcctgtat tttaaggttt gtggttcctc ggccacaatg ggtgatgtca     240
```

```
ctgatagaac gaagctgagt ttccaagggt tggggctgtg caagagtaaa cactagagct      300

tgagttgtta tccagctggc aagcacggaa gtctttgaag aatgtaatgt aaaaagggaa      360

aagaatgt                                                                368
```

```
<210>    159
<211>    1548
<212>    DNA
<213>    Homo sapien

<400>    159
gtcgcggccg aggtacatag acacaggaca attaataatt tggaaaacaa aagacttact       60

tatctccata tctgctaatt gtctcccaat ctccttaaaa tgcacttatt agcaatcatt      120

tttcaccacc catttaccca aacaacagga caaagactca atttcctatt ttatacaaaa      180

catgataagt cagccaagta ggttctggac cggacaacaa gggagatatt aaattatagt      240

atttatataa aagtggccca ttcgtgtgat acaaaacgtc tcattatgtg gaccaagaaa      300

catataaaat atatcaatat ataagttgga aaaaataaca aaaaagcaca cacattaata      360

aataatcata ttacacacac ccacatctat attctcttat atacacgcac acacaactgt      420

gtgtcttaac aacaaactct ccattttata aaatatctca ctgtatctct ttataaccac      480

aagaaagatg gaaacacaat aaacaccaaa aacaaagaca cacagaaatc atttgtgcgc      540

ctatatataa taatcacact cagtatattt aaccaacact tcccccccca tatcatctaa      600

tttatgtagt actctataat gtatcatcta gtatattatg tagaaaagtg gcgccccata      660

tattatacag ccgggcgccc acgtgtatat caaacaacag ctgttgtcgt tctgcccggg      720

gagcacaaaa ggtgtataac aacaaatgat tatattcttc acccgaggaa gaagataatg      780

agaagggagt aataataacc agcgaagaag gggcggggg acataataac accgctaatc      840

aacaccaaag aacgcgggcc aaacgaaaca acaacacaaa cgagatgttg tgccacacct      900

cagtaacacc tacatgtcag cgcgcagcga caaaacaagg gcatgaccag aagaaacctg      960

aaaaaactgc ggcaaaggga accacaccac cgacacacac accccaatga ggaaagagaa     1020

taaaaaacac atagttgagg acaccaaaaa aaggacagga ggaaaaacac actgtggggt     1080

gtgcaaaaca cacgttgtcg taacaacacc gcaggagatc acaaaagaaa acaccccaag     1140

acacaacaaa atataagcga acaccacaac aacacaacaa cgaaacaaaa caagaaaaaa     1200

caaaacacac aaccgaaaca acaaccaaa acgaccacca gaagcacaca acacgagacc     1260

aggacaacac cagacgcaga cagacacgag atgatgcaca cgcgcatcgg ccgagccagc     1320

aaacggcacg ccaacaagca agacggccag cggagaacac gagcatgtcg aagtaggaca     1380
```

gcccgccaag acgacaaaaa accgaggaga agagaggaag aacacagaaa ccgcgaggaa   1440

aggacaacgc aggaggcgag ataacggcgg acaagcgcaa gaagggagca gagaagacag   1500

aaggcaagac acgaaacaaa aacacacaac gaacaaacac gcgagagg   1548

<210> 160
<211> 552
<212> DNA
<213> Homo sapien

<400> 160
agaagactga ctcatatagg gcgatggtca ctagatcatg ccgagcggcg ccattgtgat   60

ggatctagct ttggctactg ccggtagtgg acaatatggc acatggaaat taaaaagtcc   120

ataaacgtgc cctcctaaca cgagaataag aaaggtggct gaagtagata atttcagtga   180

cggaggggat gaaatatttt ttggttaatt gatgtaatga tgactcacta tgccttattt   240

cctatttta aaaacacaga atgagcaagt cattcctgaa caaaaattta ctgtgtgtat   300

aacatacacc tcaaaatgaa ttttaaggga acatattact aatcaaataa cacagtttat   360

gcttttcaa tttccacaaa ttgttaatta tgatacttaa gggaaccctt acaatatata   420

acaagtcatt tcaatattat tcatcatcct taacttctga aagtttggtt tatgttatct   480

tatctagaaa gaaaactact tacaaatctc attttcccac aaaattaatt caacatccaa   540

ccttaaaaat aa   552

<210> 161
<211> 3937
<212> DNA
<213> Homo sapien

<400> 161
tgtagctggg attacaggca tacaccacca cacccagcta ttttttttgta tttttgttag   60

agacaggttt ctccatgttg gtcaggctgg tctcgaactc ccgacctcag gtgatccgcc   120

cacctcggcc tcccaaagtg atgattttat ttttattttt aattgtatta atctgcatct   180

agataatgac tttgtgaagg gtgtgtgttg tgtgcaaaac ttaaggtatt ggttgagagt   240

taaatacatt attttttataa tatgttgggt atagtctagt tactaatgat ttttttttaag   300

tacttttata aaaagttcat ttttaaaatt gtttgttttt aaaagccaat atacgttgca   360

gaattaggaa cagtatttat atttatttac acaagacatt gtgccatagc atcctagtaa   420

aacaccttca tgaatgagta atgttatctc ccagaattac attaaaatta tttctaaaaa   480

gtagcaaagt cattaccttt tgcttttaat gacccacacc tcaccagctc ctggtctttt   540

cttcactgtt gcccttattt tgaggcaatt tttcttaaaa tatgactttt atgcaccaca   600

```
tttagtagag gcagtgacat cagtgatctc agtacccatc agctgtcccc ctcctctgcc    660

cttcttcatc tcttctacct tgtgaccatt tcccttaccg gttcatgttc tcctttatct    720

ctgctttct ttcttagcca ggatacttcc ctcacaactc tcactcccaa attcttttag     780

atatacattt ttctggatat tggctgctga aatctgaagc tctggtaaag ttcctagtat    840

cagagatcaa tcctggagga ggcctagttc actattagat tacaaagact cctcacaaag    900

taaaggaaaa tcaccttcaa aaccacaacc ctttatgttg tcaagtctaa tatgagtgtt    960

tttacgaagt atttctttct acccattgtt caagaatgta aatgtaaaaa aaaatacaag   1020

agagttgggt agatatgcat gcttgaggaa acttgctttt actgttttcc tacttgtatc   1080

cccagttcag ttgaatttac aaggacctac aagatggtca tgtttgtctt ggtatgtgct   1140

accccaattt tagtgtttct ttctttattt taaatcagta attattcagt tgattgttta   1200

tactatataa tgaagtaaca aaaacatttt ggtttgtatg ttttaagtaa cagttgtgca   1260

aattcctctt gtttgttagg tgctcccttt gaatattttg tgaactgtgt cagagggaga   1320

ggggtggtgg ctaggaagag ggtcagaaag aagctagagg gaggtcagga gaagggtaac   1380

agggaggatg caaagcagac atctaccctg gtcaccccag gatcaggata tctgtccttg   1440

tttcatgttg aattcaaaaa ttggatctca cttaggcttt gaaggtgaca gccatctctg   1500

atagctgagc ataagtaaag aaaggtggag tgccgatgca gaaaggaaaa tattcagctt   1560

tcctctctta gatcgcactt tgaagatggc cttttggaga caatctgaca ggttaaaaca   1620

ggaactgttg gaattattct agctgtaact acctattggc tatgtgttga ttgatcctag   1680

aaagaaaaaa taatttttca ttttagatct tgattgaatt taagatgtat ttatatgcct   1740

acaaaaggtc tgtcttgtaa ctgttgtata aaataaacct aatctatggt ttcattttta   1800

atctaaaaaa agttgtgcct taacaatagg gcattgtatg ttaataaggg aaaacaacct   1860

ttttagtaga tgggggaaaa taggaacttt ttgccattaa aacttaagtt cttttgatgt   1920

ttttaatatt atagttgggg gagattcatt aaaattaaat tgaaataaaa ttatttttgc   1980

ataacctagc atttacaact aaagtatgtt ttttataaga actggcatct tgatgtatat   2040

aggtctgaaa taatatttca tcttttgatt tttaattttta ataatattag accaggatag   2100

atcacagttt tacaaatctt agttttaaat aaattatttc agtgtgctgt tagtcctcta   2160

cagtcatttt ggtttaaaaa gtgactattt atttatggta gcatatcaat aatttattaa   2220

tgttaaaaaa tactgtgtat gacattacaa accagaacag ttcctggggg agaggattct   2280

aattgattgg cagttctgag agggcaagaa gaatggaact ttatacttca aaaggaggtt   2340
```

```
ttggtttttac  caggtactgc  ttatgtaaat  cgtttatttt  tatttcatca  aagcctggca       2400

agtatatgca  ttccaatta  ccattggcaa  agctttattt  atttttaagg  ttggatgttg        2460

aattaatttt  gtgggaaaat  gagatttgta  agtagttttc  tttctagata  agataacata        2520

aaccaaactt  tcagaagtta  aggatgatga  ataatattga  aatgacttgt  tatatattgt        2580

aagggttccc  ttaagtatca  taattaacaa  tttgtggaaa  ttgaaaaagc  ataaactgtg        2640

ttatttgatt  agtaatatgt  tcccttaaaa  ttcattttga  ggtgtatgtt  atacacacag        2700

taaattttg  ttcaggaatg  acttgctcat  tctgtgtttt  taaaaatagg  aaataaggca        2760

tagtgagtca  tcattacatc  aattaaccaa  aaaatatttc  atcccctccg  tcactgaaat        2820

tatctatttc  agccaccttt  cttattctcg  tgttaggagg  gcacgtttat  ggactttta         2880

atttccatgt  gccatattgt  ccactaccgg  cagtagccaa  agctagctgt  ttcagtccca        2940

cagaagagac  agtgctctgc  catgatgaca  gggcactgct  agggctggtt  tttcttgttt        3000

ttcccttttg  gcagtgtgga  cttcaggaac  tagatgtata  tgcacaaggg  attgagttta        3060

cactaaaact  aggaaatgga  gttttcaatc  tatgttcttg  cctcttcata  cttttattta        3120

ttttttgtca  tcctgcctta  tactgggcta  acaatgagat  aaaataaaaa  tacctttgaa        3180

tactcttttc  cctttcatgc  atttaaagcc  atggaggaac  tagaccatta  gctgttgccg        3240

tcacatgctt  agacaccagt  ttacttagcg  tgttatgacc  ttcctcaccc  atactaccaa        3300

atttaaatgg  gtcccgactt  caccctctgg  aaggaagtaa  actcttctct  ccccatggtt        3360

tcagagcagt  ttttacctgc  aagcaccatc  tctgtatgtg  ctcttactag  attatacagt        3420

tcttgagagg  gattgcatct  tggtgttttt  gtatttccac  ctcacccccca  gcacatagcc       3480

cagtctcttg  cacaaattaa  gtacttaatg  tgtgttgagc  taaattgaat  aaaggattat        3540

tagcattagc  atattttgtg  ccttggttgt  ataagctggt  tgtttgtttt  gttacctttg        3600

caaatattta  tgattatcac  cccccacat  actaaattgt  ttttaaaagt  tttgcctttc         3660

cttcagatac  taccccaggc  aatttgctgt  agataatgtg  attgcttcca  atgacataat        3720

tatcccaaac  tctctgcccc  ggatatactt  tgccaaacga  aatttgaatt  ctctgaataa        3780

attggtcatg  tctaaaaaaa  aaaaaaaaa  aaaattgggg  gcgggcgaaa  aattttaaac         3840

atgtgggggg  gggcaatgaa  agaaggcagg  tccaagacgg  ggaaggggt  cacaaaaagc         3900

ggggggttga  aaaggggggg  tggtataggt  aacgggg                                   3937
```

<210>   162
<211>   852
<212>   DNA
<213>   Homo sapien

<400> 162

```
cggccgcccg ggcaggtacc accatgccca gctaattttt atatttttag tagagatggg      60

gttttgccat attggccagg ctggtctcaa actcctgaac tcaagtgata acacccacct     120

tggcctccca aagtgctggg attacaggtg tgagccacca cactgggcca atgcttaata     180

ttttaatgta tctcaacaat aaaaccaaga agaaacaaag ccttttgact tgttagaatg     240

tattaagtag tattttaaag aaactttata gttgtgacat tgaaagactg ttggggtggg     300

gggaggaaaa tttttacttt ccatcttaat gtaaccttat gctattctgt atttttactg     360

tatattgctt ttacaataaa tataaaatga aaatgtttat gttgacaaaa agaacaaaaa     420

acaacaaaca acaaaaaaca aaaggctggg ggtgtcacac ctgtgggcca aaagctggtt     480

tccctggggg tggacatttg gttttatccc ggccccacaa ttccccaccc aaatattacc     540

gggagacaac gggaagaacg acacaacaca caaaaagaca caacacacaa aaccaccaca     600

cagcaacgcc cgctcatcgg aggcagcgca caagacgaga gcagaaggaa aagggacaac     660

aaaaaaaagc aagtagcacg atcacaacac agagccacga caagaagaga aggacaatga     720

cgaaaacgag cagcagcaca agacacagac aagacaaaag caagaaagac agaacacgac     780

agaagacaac aagagacgaa acaaccaaaa agccacacaa aaaagcgagc gaaaacaaga     840

accaactaac ac                                                         852
```

<210> 163
<211> 685
<212> DNA
<213> Homo sapien

<400> 163

```
caccgatgat taaccagtac agacgctgtt ccactagatc atggcgagcg gttcgcagtg      60

ttatagtagt gcgcggctga catacttcat ctgcttttta ttgttgttgt tgtgtttttt     120

aaccaaaatg gcatttgttt ggctgtcatt gtcgagtata tatttattgt gttttacaaa     180

catgagtata tatgtatgta tatgtataaa ccaaacttat atatatagaa gtcaagggca     240

tgtatactag atattttaaa gagttattta tcaagggaaa aagatgtgtg ttataaagta     300

aacagagtct atattttcta tataatgtag atagtcaaac atagcttata aattataggа     360

ggttttggtt ttcttttttа ttattaaagg aaaaaaagaa gaaaaaaaaa gacaatgaat     420

gcaactgttc ttagtgtttt taaggccaaa ctactgtgga agctgggagg cggccctccc     480

tgcgggcctc cagcagccct gtgcctgccg ctaggagctc cagagctgat gcccgttgtg     540

atctctgcga tgctcgatgc tcggagccag cggtcagcat cactcagcca gctggcctgt     600
```

gccgctctga cgtggcttcc agctgttctc cgcaatttgc attggtggga taaaggaatg   660

aaaaggataa ataaagattt aaaag   685

<210>   164
<211>   2396
<212>   DNA
<213>   Homo sapien

<400>   164
cggccactga attcccttgc ggccgcagaa tttttttttt tttttttttgt attttctttt   60

aaatctttat ttatcctttt cattccttta tcccaccaat gcaaattgcg gagaacagct   120

ggaagccacg tcagagcggc acaggccagc tggctgagtg atgctgaccg ctggctccga   180

gcatcgagca tcgcagagat cacaacgggc atcagctctg gagctcctag cggcaggcac   240

agggctgctg gaggcccgca gggagggccg cctcccagct tccacagtag tttggcctta   300

aaaacactaa gaacagttgc attcattgtc tttttttttc ttctttttttt cctttaataa   360

taaaaaagaa aaccaaaacc tcctataatt tataagctat gtttgactat ctacattata   420

tagaaaatat agactctgtt tactttataa cacacatctt tttcccttga taaataactc   480

tttaaaatat ctagtataca tgccttgact tcttatatat ataagtttgg ttttatacat   540

atacatacat atatactcat gtttgtaaaa cacaataaat atatactcga caatgacagc   600

caaacaaatg ccattttggt taaaaaacac aacaacaaca ataaaaagca gatgaagtac   660

tataaaagca ccaggcagca gacagaaagc cacatttgct agaaacttct ccctcccctg   720

ggcaaggcac agggcagaat actaaatacg tccaggtgcc tgaaagagaa ggaaggcagc   780

aaaggaatgg gtcagatcac aagcttttgt tttgtttctt agcctgggat tagaccaaga   840

atcacaagta agtcattgcg tttataagga aaaaccaagg ggctcattca acagcttagc   900

ccttgtggtg gctgcagggg acagtagaga cctggaaggg gaaggagaga gacagtgacc   960

tggtgacaac tccatgacta ttgtctagcc cctgcctaca tctgcccagg caagctttg   1020

attgccacac taagcatcaa gccattgcat ataatatgtt cttttcatga ctctattcac   1080

tgctggtgta aacagaaagg agtattcagt agtgcaacac tttgggaggc tgaatgagag   1140

ccacagtttc ggtggccccc tcaagggctc cagcaaatgg ggactgtgac gtgggggaga   1200

aaaaggccag tgggccattg ccttccactc ctgagacagt accggcttca cctccagatg   1260

ccactgggaa cactgagccc atcacctttt aaagaagcgc aggaggtctt gactcttcct   1320

atgagaagtc ccagaagccc cagtcagtct gggtggggggg tcccctgaaa ctcagagcac   1380

gctccagctg ctggctcctg tgcctggcgg ggagaaggtg gagaggcggg catgcctgcc   1440

```
gctgagaaag acataataac gctccagctg cacacccctt ttcttccacg gccctcctct    1500

ttctccccaa aaggaaacta aaatgtgggg ttctgatcat tgatttttaa acaagctccc    1560

caatgtcatg gcctctgctc tgtaaactcc aaggctctga tggccaaaaa cgtaggcggt    1620

ggtggagcag taggcggtgt caaggctaga tttgtattaa tatctaggag tggggtgggg    1680

atgcaggtgg agggtgagcc aagtagacca agcctcagga aatcccagag gtgaagattt    1740

gatgcacatc ccccatcctt gccaaataaa atacaagtta gaggtcattg ttcacattac    1800

agtcacaatg ggacatttta aacagctcgt tttctgagta cattcaagac ataattgaat    1860

ttattttaaa aaatggattt cccggctggg cacggtggat cacgcctgtc atcccagcac    1920

tttgggaggt caaggaagcc ccttcttcac aggacatcct ggtgttcctc actgggcagg    1980

aggagatcga agccatgagc aagacgtgcc gagacattgc aaagcacctc ccagacggct    2040

gccctgcgat gctggtcctt cctctgtacg cctccctgcc ctatgcacag cagctccgag    2100

tcttccaagg ggccccaaag ggctatcgca aagtgatcat ttcaaccaac atcgctgaaa    2160

cctccataac cattacagga ataaaatatg tagttgacac gggcatggtt aaagcaaaga    2220

agtataaccc tgacagtggt cttgaggtgt tagcagtgca gcgggtatcg aagacgcagg    2280

cttggcagcg cacagggagg gctggcagag aggacagtgg catctgctac cggctctaca    2340

cggaggacga gtttgagaag tttgataaga tgaccgtgcc agagatccag aggtag        2396
```

```
<210>  165
<211>  11
<212>  PRT
<213>  Homo sapien

<400>  165

Met Arg Tyr Leu Pro Gly Leu Ser Ala Arg Ile
1               5                   10


<210>  166
<211>  45
<212>  PRT
<213>  Homo sapien

<400>  166

Met Ser Ile Pro Arg Ala Glu Ile Ser Leu Leu Glu Ser Phe Gln Leu
1               5                   10                  15


Thr Ser Thr Val Ala Thr Ser Glu Ser His Lys Ser Asn Gly Ser Cys
                20                  25                  30
```

Arg Lys Pro His Leu Leu His Cys Pro Arg Ile Asn Gln
        35   40   45

<210>   167
<211>   37
<212>   PRT
<213>   Homo sapien

<400>   167

Met Ile Leu Gly Ser Asp Asn Gly Ile Arg Arg Ile Lys Tyr Leu Gly
1   5   10   15

Ile Gln Tyr Tyr Ala Cys Ser Phe Phe Gln Ile Val His Gly Gly Gly
            20   25   30

Gly Cys Val Ser Gly
            35

<210>   168
<211>   82
<212>   PRT
<213>   Homo sapien

<400>   168

Ser Leu Ser Val Ala Gln Ala Arg Val Gln Trp Arg Asp Pro Gly Ser
1   5   10   15

Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe Leu Ser Leu Ser Leu
            20   25   30

Pro Ser Ser Ala Gly Tyr Arg Arg Ala Pro Pro Pro Cys Pro Ala Leu
            35   40   45

Leu Tyr Phe Ala Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly
    50   55   60

Leu Glu Leu Leu Thr Ser Gly Asn Pro Ala Pro Pro Arg Pro Pro Lys
65   70   75   80

Val Leu

<210>   169
<211>   103
<212>   PRT
<213>   Homo sapien

<400> 169

Met Ala Ile Phe Ser Ala Leu Ser Gln Leu Leu Glu His Gly Leu Asp
1   5   10   15

Leu Glu Thr Ser Asn Lys Asp Phe Thr Ser Ile Pro Ala Ala Cys Trp
            20   25   30

Trp Val Ile Ile Ser Met Thr Thr Val Gly Tyr Gly Asp Met Tyr Pro
            35   40   45

Ile Thr Val Pro Gly Arg Ile Leu Gly Gly Val Cys Val Val Ser Gly
        50   55   60

Ile Val Leu Leu Ala Leu Pro Ile Thr Phe Ile Tyr His Ser Phe Val
65   70   75   80

Gln Cys Tyr His Glu Leu Lys Phe Arg Ser Ala Arg Tyr Ser Arg Ser
                85   90   95

Leu Ser Thr Glu Phe Leu Asn
                100

<210>   170
<211>   131
<212>   PRT
<213>   Homo sapien

<400>   170

Arg Thr Ala Arg His Asp Tyr Ala Ser Cys Arg His Leu Met Val Phe
1   5   10   15

Ser Thr Arg Leu Thr Leu Lys Arg Cys Tyr Arg Glu Met Val Met Leu
            20   25   30

Leu Val Phe Ile Cys Val Ala Met Ala Ile Phe Ser Ala Leu Ser Gln
            35   40   45

Leu Leu Glu His Gly Leu Asp Leu Glu Thr Ser Asn Lys Asp Phe Thr
        50   55   60

Ser Ile Pro Ala Ala Leu Leu Trp Val Ile Ile Ser Met Thr Thr Val
65   70   75   80

Gly Tyr Gly Asp Met Tyr Pro Ile Thr Val Pro Gly Arg Ile Leu Gly
                85   90   95

Gly Val Cys Val Val Ser Gly Ile Val Leu Leu Ala Leu Pro Ile Thr
            100   105   110

Phe Ile Tyr His Ser Phe Val Gln Cys Tyr His Glu Leu Lys Phe Arg
            115   120   125

Ser Ala Arg
    130

<210> 171
<211> 23
<212> PRT
<213> Homo sapien

<400> 171

Met Val Ala His Cys Ser Leu Pro Val Pro Val Thr Leu Pro Asn Cys
1   5   10   15

Pro Val Ala Cys Arg Leu Ala
            20

<210> 172
<211> 57
<212> PRT
<213> Homo sapien

<400> 172

Met Asn Gly Arg Gly Leu Ala Arg Gln Gly Cys Glu Ser Gly Asn Ala
1   5   10   15

Phe Phe Thr Pro Met Asn Phe Cys Leu Ile Leu Thr Thr Glu Gln Glu
            20   25   30

Cys Ser Glu Thr Glu Val Gly Val Thr Asn Ile His Phe Pro Phe Ser
            35   40   45

Ser Cys Ser Asn Gln Tyr Phe Lys Lys
    50   55

<210> 173
<211> 50
<212> PRT
<213> Homo sapien

<400> 173

```
Met Ser Gly Glu Arg Thr Asp Tyr Ala Pro Leu Asn Asn Lys Leu Cys
1               5                   10                  15


Ser Arg Val Arg Ala Val Ser Ser Glu Ala Leu Leu Thr Glu Thr Ala
            20                  25                  30


Thr Phe Lys Pro Asn Gln Arg Lys Tyr Leu Trp Asn Ser Leu Pro Gln
        35                  40                  45


Phe Gly
    50
```

```
<210>   174
<211>   31
<212>   PRT
<213>   Homo sapien

<400>   174


Met Val Thr Asn Leu Leu Thr Ala Gln Cys Gly Trp Met Val Ala Ala
1               5                   10                  15


Arg Cys Phe Cys Cys Leu Asn Leu Leu Asn Cys Leu Ile Phe Ser
            20                  25                  30
```

```
<210>   175
<211>   456
<212>   PRT
<213>   Homo sapien

<400>   175


Met Glu Pro Arg Cys Pro Pro Pro Cys Gly Cys Cys Glu Arg Leu Val
1               5                   10                  15


Leu Asn Val Ala Gly Leu Arg Phe Glu Thr Arg Ala Arg Thr Leu Gly
            20                  25                  30


Arg Phe Pro Asp Thr Leu Leu Gly Asp Pro Ala Arg Arg Gly Arg Phe
        35                  40                  45


Tyr Asp Asp Ala Arg Arg Glu Tyr Phe Phe Asp Arg His Arg Pro Ser
    50                  55                  60


Phe Asp Ala Val Leu Tyr Tyr Tyr Gln Ser Gly Gly Arg Leu Arg Arg
65                  70                  75                  80


Pro Ala His Val Pro Leu Asp Val Phe Leu Glu Glu Val Ala Phe Tyr
```

Gly Leu Gly Ala Ala Ala Leu Ala Arg Leu Arg Glu Asp Glu Gly Cys
        100   105   110

Pro Val Pro Pro Glu Arg Pro Leu Pro Arg Arg Ala Phe Ala Arg Gln
        115   120   125

Leu Trp Leu Leu Phe Glu Phe Pro Glu Ser Ser Gln Ala Ala Arg Val
    130   135   140

Leu Ala Val Val Ser Val Leu Val Ile Leu Val Ser Ile Val Val Phe
145   150   155   160

Cys Leu Glu Thr Leu Pro Asp Phe Arg Asp Asp Arg Asp Gly Thr Gly
                165   170   175

Leu Ala Ala Ala Ala Ala Gly Pro Phe Pro Ala Pro Leu Asn Gly
            180   185   190

Ser Ser Gln Met Pro Gly Asn Pro Pro Arg Leu Pro Phe Asn Asp Pro
        195   200   205

Phe Phe Val Val Glu Thr Leu Cys Ile Cys Trp Phe Ser Phe Glu Leu
    210   215   220

Leu Val Arg Leu Leu Val Cys Pro Ser Lys Ala Ile Phe Phe Lys Asn
225   230   235   240

Val Met Asn Leu Ile Asp Phe Val Ala Ile Leu Pro Tyr Phe Val Ala
                245   250   255

Leu Gly Thr Glu Leu Ala Arg Gln Arg Gly Val Gly Gln Gln Ala Met
            260   265   270

Ser Leu Ala Ile Leu Arg Val Ile Arg Leu Val Arg Val Phe Arg Ile
        275   280   285

Phe Lys Leu Ser Arg His Ser Lys Gly Leu Gln Ile Leu Gly Gln Thr
    290   295   300

Leu Arg Ala Ser Met Arg Glu Leu Gly Leu Leu Ile Phe Phe Leu Phe
305   310   315   320

```
Ile Gly Val Val Leu Phe Ser Ser Ala Val Tyr Phe Ala Glu Val Asp
            325             330             335


Arg Val Asp Ser His Phe Thr Ser Ile Pro Glu Ser Phe Trp Trp Ala
            340             345             350


Val Val Thr Met Thr Thr Val Gly Tyr Gly Asp Met Ala Pro Val Thr
            355             360             365


Val Gly Gly Lys Ile Val Gly Ser Leu Cys Ala Ile Ala Gly Val Leu
        370             375             380


Thr Ile Ser Leu Pro Val Pro Val Ile Val Ser Asn Phe Ser Tyr Phe
385             390             395             400


Tyr His Arg Glu Thr Glu Gly Glu Glu Ala Gly Met Phe Ser His Val
                405             410             415


Asp Met Gln Pro Cys Gly Pro Leu Glu Gly Lys Ala Asn Gly Gly Leu
            420             425             430


Val Asp Gly Glu Val Pro Glu Leu Pro Pro Pro Leu Trp Ala Pro Pro
        435             440             445


Gly Lys His Leu Val Thr Glu Val
    450             455
```

<210> 176
<211> 28
<212> PRT
<213> Homo sapien

<400> 176

```
Met Ser Tyr Asn Ser Lys Leu Glu Ser Ile Arg Leu Lys Arg Val Ser
1               5               10              15


Met Lys Thr Ile Pro Lys Ile Pro Phe Thr Gln Asn
            20              25
```

<210> 177
<211> 91
<212> PRT
<213> Homo sapien

<400> 177

```
Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Glu
```

```
 1                   5                   10                  15

Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Tyr Arg Val
            20                  25                  30

Leu Arg Pro Cys Pro Leu Pro Val His Cys Ala Pro Pro His His Gln
            35                  40                  45

Pro Ser Arg Gly Asn Pro Val Ala Cys Leu Pro Thr Tyr Lys Val Val
            50                  55                  60

Tyr Gln Ala Ala Val Leu Ala Thr Ala Phe Lys Phe Gln Cys Asp Leu
65                  70                  75                  80

Pro Gly Arg Ser Ile Thr Leu Arg Arg Ser Ala
                85                  90
```

<210> 178
<211> 54
<212> PRT
<213> Homo sapien

<400> 178

```
Met Lys Phe Ser Ser Ala Phe Val Gln Ser Lys Pro Leu Ser Ser Cys
 1                   5                   10                  15

Arg Ala Glu Thr Leu Tyr Met Lys Thr Val Ser Glu Leu Val Leu Ala
            20                  25                  30

Ser Ile His Glu Asn Cys Leu Ser Cys Met Leu Ala Lys Thr Ser Ser
            35                  40                  45

Glu Thr Lys Lys Leu Lys
      50
```

<210> 179
<211> 88
<212> PRT
<213> Homo sapien

<400> 179

```
Gly Arg Val Arg Phe Val Val Glu Leu Ala Asp Pro Lys Leu Glu Val
 1                   5                   10                  15

Lys Trp Tyr Lys Asn Gly Gln Glu Ile Arg Pro Ser Thr Lys Tyr Ile
            20                  25                  30
```

Phe Glu His Lys Gly Cys Gln Arg Ile Leu Phe Ile Asn Asn Cys Gln
        35   40   45

Met Thr Asp Asp Ser Glu Tyr Tyr Val Thr Ala Gly Asp Ala Lys Cys
        50   55   60

Ser Thr Glu Leu Phe Val Arg Glu Pro Pro Phe Met Val Pro Ser Ser
65   70   75   80

Trp Ile Glu Thr Pro Ala Asp Cys
                85

<210> 180
<211> 26
<212> PRT
<213> Homo sapien

<400> 180

Met Val Leu Tyr Ser Glu Gly His Gln His Gly Pro His Leu Leu Asn
1   5   10   15

Met Glu Asn Gln Asn Leu Asn Glu Tyr Asn
        20   25

<210> 181
<211> 57
<212> PRT
<213> Homo sapien

<400> 181

Met Thr Glu Arg Ala Asp Gly Lys Ser Gln Ser Cys Ile Glu Glu Ile
1   5   10   15

Ser Met Val Ala Leu Lys Leu Leu Lys Pro Asp Val Ser Ser Ala Ser
        20   25   30

His Trp Lys Met Asp Arg Trp Ala Asn His His Leu Thr Ser Gln Arg
        35   40   45

Glu Gly Gln Cys Ala Lys Val Phe Lys
        50   55

<210> 182
<211> 67
<212> PRT

<213> Homo sapien

<400> 182

Met Asn Thr Lys Ala Leu Pro Thr Thr Pro Ala Gln Thr Ala Ile Ser
1   5   10   15

Pro Pro Glu Gly Gln Cys Ser Ser Ser Ile Gly Leu Glu Thr Ile Pro
                20   25   30

Glu Ser Pro Cys Phe Arg Thr Pro Glu Ser Ser Asn Ser Pro Ser Leu
                35   40   45

Arg Arg Asp Leu Leu Ala Ala Lys Arg Val Lys Leu Ile Val Leu Gln
        50   55   60

Ser Ser Ala
65

<210> 183
<211> 91
<212> PRT
<213> Homo sapien

<400> 183

Asp Val Gly Gly Ala Gln Val Leu Ala Thr Gly Lys Thr Pro Gly Ala
1   5   10   15

Glu Ile Asp Phe Lys Tyr Ala Leu Ile Gly Thr Ala Val Gly Val Ala
                20   25   30

Ile Ser Ala Gly Phe Leu Ala Leu Lys Ile Cys Met Ile Arg Arg His
                35   40   45

Leu Phe Asp Asp Asp Ser Ser Asp Leu Lys Ser Thr Pro Gly Gly Leu
        50   55   60

Ser Asp Thr Ile Pro Leu Lys Lys Arg Ala Pro Arg Arg Asn His Asn
65   70   75   80

Phe Ser Lys Arg Asp Ala Gln Val Ile Glu Leu
                85   90

<210> 184
<211> 101
<212> PRT
<213> Homo sapien

<400> 184

```
Met Arg Pro Gly Arg Tyr Gln Ala Pro Arg Pro Phe Leu Tyr His Gly
1               5               10              15
```

```
Cys Trp Val Thr Ser Gly Ser His His Leu Phe Pro Ser Leu Phe Pro
            20              25              30
```

```
Ile Ser Gln Met Trp Gly His Gly Leu Asp Asp Gly Leu His Arg Ser
        35              40              45
```

```
Phe His Leu Cys Glu Ser Lys Ser Gly Gln Ser Ala Arg Thr His Leu
    50              55              60
```

```
Cys Pro Gly Ser Ala Pro Gln Asn Gln Pro Pro Ala Ser Leu Lys Gln
65              70              75              80
```

```
Lys Pro His Leu Lys Gly Cys Ser Glu Glu Ser Thr Phe Ser Met Ser
            85              90              95
```

```
Cys Cys Trp Lys Ile
            100
```

<210> 185
<211> 489
<212> PRT
<213> Homo sapien

<400> 185

```
Gly Trp Thr Val Ile Gln Asn Arg Gln Asp Gly Ser Val Asp Phe Gly
1               5               10              15
```

```
Arg Lys Trp Asp Pro Tyr Lys Gln Gly Phe Gly Asn Val Ala Thr Asn
            20              25              30
```

```
Thr Asp Gly Lys Asn Tyr Cys Gly Leu Pro Gly Asn Glu Gln Ala Cys
        35              40              45
```

```
Lys Ile Lys Ser Phe Tyr Leu Lys Trp Asp Phe Phe Ala Leu Lys Asn
    50              55              60
```

```
Ile His Cys Trp Lys Pro Val Leu Gly Ser Ala Glu Glu Phe Pro Asp
65              70              75              80
```

```
Lys Asn Val Glu Ala Lys Asp Lys Gly Arg Lys Ala Val Phe Ser Phe
```

                    85   90   95

Pro Lys Phe Tyr Phe Trp Ala Glu Ile Leu Phe Cys Phe Ser Phe Gly
        100   105   110

Glu Tyr Trp Leu Gly Asn Asp Lys Ile Ser Gln Leu Thr Arg Met Gly
        115   120   125

Pro Thr Glu Leu Leu Ile Glu Met Glu Asp Trp Lys Gly Asp Lys Val
    130   135   140

Lys Ala His Tyr Gly Gly Phe Thr Val Gln Asn Glu Ala Asn Lys Tyr
145   150   155   160

Gln Ile Ser Val Asn Lys Tyr Arg Gly Thr Ala Gly Asn Ala Leu Met
                165   170   175

Asp Gly Ala Ser Gln Leu Met Gly Glu Asn Arg Thr Met Thr Ile His
            180   185   190

Asn Gly Met Phe Phe Ser Thr Tyr Asp Arg Asp Asn Asp Gly Trp Tyr
        195   200   205

Val Trp His Ser Leu Leu Leu Leu Ala Lys Ser His Ala Tyr His Tyr
    210   215   220

Ser Glu Ser Leu Thr Ile Phe Leu Ile Ala Thr Thr Ser Trp Ala Leu
225   230   235   240

Thr Val Ser His Cys Pro Lys Leu Phe Met His His Ser Lys Ala Phe
            245   250   255

Gln Leu Ala Gly Arg His Ser Tyr Ser His Phe Thr Asp Glu Ile Ala
            260   265   270

Arg Asp Tyr Val Ile Cys Pro Met Ser His Asn Tyr Pro Glu Ile Lys
        275   280   285

Leu Glu Phe Glu His Ser Tyr Phe Leu Asn Asn Glu His Leu Asp Lys
    290   295   300

Tyr Leu Tyr Leu Tyr Ile Leu Lys Cys Val Ala Lys Leu Ser Phe Ser
305   310   315   320

Phe Pro Gly Phe Ser Asp Thr Lys Gly Cys Lys Ser Tyr Tyr Ser Ser
            325   330   335

Ile Lys Ala Gln Thr Gln Ser Leu Asp Gly Leu Pro Gln Arg Pro Ser
            340   345   350

Tyr Leu Ser Phe Leu Leu Ala Gly Thr Gly Gly Leu Trp Cys Ile Ser
            355   360   365

Val Thr Leu Cys Ile Ala Pro Lys Gly Lys Thr Thr Val His Thr Ser
            370   375   380

Val Ala Val Phe Tyr Gly Ala Ser Ala Lys Arg Asn Leu Thr Thr Val
385   390   395   400

Val Leu Phe Leu Ile Thr Pro Asn Thr Phe Ser Phe Arg Leu Thr Ser
            405   410   415

Asp Pro Arg Lys Gln Cys Ser Lys Glu Asp Gly Gly Gly Trp Trp Tyr
            420   425   430

Asn Arg Cys His Ala Ala Asn Pro Asn Gly Arg Tyr Tyr Trp Gly Gly
            435   440   445

Gln Tyr Thr Trp Asp Met Ala Lys His Gly Thr Asp Asp Gly Val Val
    450   455   460

Trp Met Asn Trp Lys Gly Ser Trp Tyr Ser Met Arg Lys Met Ser Met
465   470   475   480

Lys Ile Arg Pro Phe Phe Pro Gln Gln
            485

<210> 186
<211> 33
<212> PRT
<213> Homo sapien

<400> 186

Met Val Thr Glu Ser Leu Ser Ser Pro His Ser Glu Ser Ile Pro Leu
1   5   10   15

Gly Arg Val Asn Pro Gly Ser Gly Leu Pro Pro His Ser Thr Arg Pro
            20   25   30

Phe

<210> 187
<211> 149
<212> PRT
<213> Homo sapien

<400> 187

Pro Gly Asn Leu Asp Thr Ser Ser Arg Gly Ser Ser Gly Ser Pro Ala
1   5   10   15

His Ala Glu Ser Tyr Ser Ser Gly Gly Gly Gln Gln Lys Phe Arg
            20   25   30

Val Asp Met Pro Gly Ser Gly Ser Ala Phe Ile Pro Thr Ile Asn Ala
            35   40   45

Ile Thr Thr Ser Gln Asp Leu Gln Trp Met Val Gln Pro Thr Val Ile
    50   55   60

Thr Ser Met Ser Asn Pro Tyr Pro Arg Ser His Pro Tyr Ser Pro Leu
65   70   75   80

Pro Gly Leu Ala Ser Val Ala Gly His Met Ala Leu Pro Arg Pro Gly
                85   90   95

Val Ile Lys Thr Ile Gly Thr Thr Val Gly Arg Arg Arg Arg Asp Glu
            100   105   110

Gln Leu Ser Pro Glu Glu Glu Lys Arg Arg Ile Arg Arg Glu Arg
            115   120   125

Asn Lys Leu Ala Ala Ala Lys Cys Arg Asn Arg Arg Arg Glu Leu Thr
    130   135   140

Glu Lys Leu Gln Ala
145

<210> 188
<211> 41
<212> PRT
<213> Homo sapien

<400> 188

Met Thr Val Pro Leu His Thr Ser Leu Ser Tyr Arg Gly Arg Ser Gln

```
1                   5                       10                      15
```

Leu Leu Lys Thr Lys Thr Thr Ile Asn Ile Tyr Lys Asn His Asn Ile
            20   25   30

Lys Gly Phe Met Leu Arg Lys Asn Pro
        35   40

<210> 189
<211> 45
<212> PRT
<213> Homo sapien

<400> 189

Met Tyr Thr Asn Lys Tyr Ala Gln Asp Leu Glu Ser Tyr Ile Lys Met
1   5   10   15

Tyr Leu Thr Trp Leu Glu Cys Val Cys Val Phe Pro Arg Leu Ser Lys
            20   25   30

Ile Arg Lys Pro Glu Ser Gln Ala Thr Lys Lys Lys Asn
        35   40   45

<210> 190
<211> 91
<212> PRT
<213> Homo sapien

<400> 190

Met Phe Leu Cys Asn Val Leu Arg Val Thr Trp Ala Ser Pro Thr Tyr
1   5   10   15

Ala Ser Thr Val Cys Cys Val Thr Phe Arg Gln Leu His Thr Pro Pro
            20   25   30

Ala Pro Leu Pro Ser Pro Pro Ser Ser His Thr Val Ser Ala Gly Cys
        35   40   45

Gly Ser Pro Thr Ser Val Met Ser Gly Ile Met Leu Leu Leu Ser Leu
    50   55   60

Leu Phe Ser Leu Phe Phe Phe Val Ile Gln Val Leu Leu Thr Ser
65   70   75   80

Ser Leu Ile His Gln Asn Ala Arg Ser Ser Tyr
            85   90

<210> 191
<211> 100
<212> PRT
<213> Homo sapien

<400> 191

Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr Gly His Gly Glu Ser
1   5   10   15

Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Leu Phe His Ile Glu Gln
            20   25   30

Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser Leu Gly Tyr Met Lys
        35   40   45

Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val Val Ser Lys Thr Gly
    50   55   60

Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met Pro Trp Ala Ala Ala
65   70   75   80

Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro Asp Asp Thr Thr Ile
                85   90   95

Thr Asp Leu Pro
                100

<210> 192
<211> 54
<212> PRT
<213> Homo sapien

<400> 192

Met Glu Glu Gln Glu Glu Ala Leu Cys Ser His His Ile Pro Val Ala
1   5   10   15

Arg Ser Trp Leu Gln Gly Ser Ser Gly Asn Arg Ile Pro Arg Ser His
            20   25   30

Glu Thr Ser Pro Asn Ser Ala Val Thr Glu Ser Thr Arg Gln Trp Leu
        35   40   45

Lys Asp Gly Glu Thr Ser
    50

<210> 193
<211> 63
<212> PRT
<213> Homo sapien

<400> 193

Met Ile Ile Leu Lys Tyr Arg Trp Lys Asp Thr Asn Ala Arg Lys Arg
1   5   10   15

Glu Ser Asn Gln Pro Arg Phe Gly Gly Trp Gly Thr Glu Asp Gly Ala
                20   25   30

Thr Phe Pro Pro Tyr Leu Leu Phe Phe Tyr Ile Pro Ile Cys Thr Leu
            35   40   45

Arg Ile His Leu Arg Ser Ser Phe Lys Arg Glu Lys Leu Asp Thr
        50   55   60

<210> 194
<211> 211
<212> PRT
<213> Homo sapien

<400> 194

Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys
1   5   10   15

Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr
                20   25   30

Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp
            35   40   45

Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys
        50   55   60

Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu
65   70   75   80

Arg Glu Glu Phe Thr Val Leu Gly Arg Gln Val Glu Asp Ala Gly Arg
                85   90   95

Val Leu Glu Gly Ile Ser Lys Ser Ile Ser Tyr Asp Leu Asp Gly Glu
                100   105   110

Glu Ser Tyr Gly Lys Tyr Leu Arg Arg Glu Ser His Gln Ile Gly Asp
     115   120   125

Ala Tyr Ser Asn Ser Asp Lys Ser Leu Thr Glu Leu Glu Ser Lys Phe
     130   135   140

Lys Gln Gly Gln Glu Gln Asp Ser Arg Gln Glu Ser Arg Leu Asn Glu
145   150   155   160

Asp Phe Leu Gly Met Leu Val His Thr Arg Ser Leu Leu Lys Glu Thr
          165   170   175

Leu Asp Ile Ser Val Gly Leu Arg Asp Lys Tyr Glu Leu Leu Ala Leu
          180   185   190

Thr Ile Arg Ser His Gly Thr Arg Leu Gly Arg Leu Lys Asn Asp Tyr
     195   200   205

Leu Lys Val
     210

<210> 195
<211> 54
<212> PRT
<213> Homo sapien

<400> 195

Met Asp Asp Ser Lys Leu Gln Lys Lys Asp Val Asp Lys His Cys
1   5   10   15

Leu Thr Glu His Phe Ile Phe Ser Gln Leu Phe Trp Phe Leu Leu Ile
          20   25   30

Thr Met Thr Lys Met Leu Asp Ser Glu Leu Cys Arg Tyr Phe Ser Lys
     35   40   45

Phe Tyr Asp Phe Lys Ser
     50

<210> 196
<211> 88
<212> PRT
<213> Homo sapien

<400> 196

Met Leu Gly Leu Gln Thr Leu Ser Arg Phe Leu Ser Gly His Pro Gly

```
1                    5                    10                   15

    Phe Leu Thr His Cys Leu Lys Ser Arg Trp Gln Val Pro Ser Leu Asn
                20                  25                  30

    His Ser Cys Ala Pro Glu Asp Ser Gly Pro Lys Leu Pro Ser Ser Ala
                35                  40                  45

    Cys His Ser Leu Leu Ile Ile Ser Ser Ser Asp Gln Val Cys Val Met
                50                  55                  60

    His Leu Ala Gln Ala Gln Gly Val Pro Arg Arg Asp His Asp Pro Ser
    65                  70                  75                  80

    His Cys Ala Arg Ser Ser Ser Ile
                    85
```

<210> 197
<211> 48
<212> PRT
<213> Homo sapien

<400> 197

```
    Met Thr Glu Met Thr Gln Ser Lys Gly Arg Ile Gly Thr Glu Asp Ala
    1                    5                    10                   15

    Asn Thr Gly Ser Tyr Lys Ile Gln Arg Glu Leu Ser Gly Gly Lys Thr
                20                  25                  30

    Gln Glu Pro Asn Ser Thr His Leu Ile Pro Leu Val Asp Gln Leu Asn
                35                  40                  45
```

<210> 198
<211> 121
<212> PRT
<213> Homo sapien

<400> 198

```
    Phe Phe Ala Asp Glu Val Ser Arg Leu Ser Pro Gly Leu Glu Cys Ser
    1                    5                    10                   15

    Gly Val Ile Ser Ala His Cys Asn Phe His Leu Leu Gly Ser Ser Ser
                20                  25                  30

    Ser Pro Ala Ser Ala Ser Gln Val Ala Glu Ile Thr Gly Ala Cys His
                35                  40                  45
```

Pro Thr Trp Leu Ile Phe Val Ile Leu Val Glu Thr Gly Phe His His
    50   55   60

Val Gly Gln Ala Asp Ala Leu Leu Thr Ser Gly Asp Pro Pro Phe Ser
65   70   75   80

Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala Arg Pro
                85   90   95

Ala Asn Thr Phe Ala Leu Thr Thr Leu Gly Leu Leu Tyr Lys Ile Val
            100   105   110

Met Ile Ala Met Glu Val Leu Pro Pro
        115   120

<210>   199
<211>   162
<212>   PRT
<213>   Homo sapien

<400>   199

Met Asp Ala Ala Gly Gln Val Leu Gly Pro Glu Arg Gly Gly Tyr Leu
1   5   10   15

Pro His Trp Val Ala Ser Ser Ala Ala Pro His Leu Ser Leu Phe Ser
            20   25   30

Pro Lys Leu Val Phe Leu Thr Ile Ile Val Val Gly Gly Gly Gln Met
        35   40   45

Leu Lys Val Glu Ala Asp Leu Glu Lys Glu Thr His Gly Val Thr Val
    50   55   60

Ala Lys Asp Ser Trp Lys Arg Asn Ser Ile Thr Ser Ser Leu Ala Thr
65   70   75   80

Thr Arg His Pro Arg Pro Trp His Ser Gln Arg Leu Cys Ala Val Ala
            85   90   95

Lys Pro Leu Asn Leu Phe Trp Pro Cys Val Leu Gln Arg Ser Leu Cys
            100   105   110

Cys Lys Thr Val Asp Ser Phe Asp Glu Val Leu Lys Asn Ala Thr Arg
        115   120   125

Gly Gly Gly Val Trp Leu Ala Val Trp Pro Ser Ser Glu Lys Val Ala
    130   135   140

Glu Ile Arg Gly Gln Gly Cys His Ser Pro Arg Leu Ser Ser Gly Ser
145   150   155   160

Gln Ser

<210> 200
<211> 594
<212> PRT
<213> Homo sapien

<400> 200

Val Pro Gly Arg Lys Leu His Arg Ser Arg Leu Gln Ala Ala Ala Pro
1   5   10   15

Arg Pro Ser Thr Cys Ala Gln Ser Leu Cys Trp Ser Arg Pro Pro Ala
            20   25   30

Ala Gly Thr Gly Thr Gly Asp Pro Ser Gln Ser Lys Ala Pro Thr Met
            35   40   45

Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile Ile
    50   55   60

Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu Asn
65   70   75   80

Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu Gln
                85   90   95

Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala Glu
            100   105   110

Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn Glu
        115   120   125

Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu Phe
    130   135   140

Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser Pro
145   150   155   160

Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Leu Gly Gly Ala
            165   170   175

Pro Leu Gln Gly Leu Thr Leu Pro Asn Lys Ala Thr Leu Gly His Phe
            180   185   190

Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr Arg
            195   200   205

Glu Phe Leu Glu Gly Phe Val Asp Asp Leu Leu Glu Ala Leu Arg Ser
   210   215   220

Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly Val
225   230   235   240

Asp Ser Met Tyr Glu Asn Trp Gln Val Asp Arg Pro Leu Leu Cys His
            245   250   255

Leu Phe Val Pro Phe Thr Pro Pro Glu Pro Tyr Arg Phe His Pro Glu
            260   265   270

Leu Trp Cys Ser Gly Arg Ser Val Pro Leu Asp Arg Gln Gly Tyr Gly
            275   280   285

Gln Ile Lys Val Val Arg Ala Asp Gly Asp Thr Leu Ser Cys Ile Cys
        290   295   300

Gly Lys Thr Lys Leu Gly Glu Asp Met Leu Cys Leu Leu His Gly Arg
305   310   315   320

Asn Ser Met Ala Pro Pro Cys Gly Asp Met Glu Asn Leu Leu Cys Ala
            325   330   335

Thr Asp Ser Leu Tyr Leu Asp Thr Met Gln Val Met Lys Trp Phe Gln
            340   345   350

Thr Ala Leu Thr Arg Ala Trp Lys Gly Ile Ala His Lys Tyr Glu Phe
            355   360   365

Asp Leu Ala Phe Gly Gln Leu Asp Ser Pro Gly Ser Leu Lys Ile Lys
   370   375   380

Phe Arg Ser Gly Lys Phe Met Pro Phe Asn Leu Ile Pro Val Ile Gln

385   390   395   400

Cys Asp Asp Ser Asp Leu Tyr Phe Val Ser His Leu Pro Arg Glu Pro
            405   410   415

Ser Glu Gly Thr Pro Ala Ser Ser Thr Asp Trp Leu Leu Ser Phe Ala
            420   425   430

Val Tyr Glu Arg His Phe Leu Arg Thr Thr Leu Lys Ala Leu Pro Glu
            435   440   445

Gly Ala Cys His Leu Ser Cys Leu Gln Ile Ala Ser Phe Leu Leu Ser
        450   455   460

Lys Gln Ser Arg Leu Thr Gly Pro Ser Gly Leu Ser Ser Tyr His Leu
465   470   475   480

Lys Thr Ala Leu Leu His Leu Leu Leu Leu Arg Gln Ala Ala Asp Trp
            485   490   495

Lys Ala Gly Gln Leu Asp Ala Arg Leu His Glu Leu Leu Cys Phe Leu
            500   505   510

Glu Lys Ser Leu Leu Gln Lys Lys Leu His His Phe Phe Ile Gly Asn
            515   520   525

Arg Lys Val Pro Glu Ala Met Gly Leu Pro Glu Ala Val Leu Arg Ala
        530   535   540

Glu Pro Leu Asn Leu Phe Arg Pro Phe Val Leu Gln Arg Ser Leu Tyr
545   550   555   560

Arg Lys Thr Leu Asp Ser Phe Tyr Glu Met Leu Lys Asn Ala Pro Ala
            565   570   575

Leu Ile Ser Glu Tyr Ser Leu His Val Pro Ser Asp Gln Pro Thr Pro
            580   585   590

Lys Ser

<210>   201
<211>   38
<212>   PRT
<213>   Homo sapien

<400> 201

Met Ser Leu His Ala Glu Val Gly Gly Ala Leu Lys Pro Val Ile Tyr
1   5   10   15

Ala Val Lys Thr Lys Trp Val Cys Tyr Leu Ile Ser Trp Gly Ile His
            20   25   30

Gly Leu Ala Val Pro Gly
        35

<210> 202
<211> 16
<212> PRT
<213> Homo sapien

<400> 202

Met Glu Arg Ile Gly Thr Phe Tyr Ser Gly Asn Thr Gln Pro Ala Thr
1   5   10   15

<210> 203
<211> 87
<212> PRT
<213> Homo sapien

<400> 203

Met Ala Glu Gly Val Gly Ala Gly Thr Leu Glu Ala Pro Pro Leu Leu
1   5   10   15

Ser Leu Pro Ser Ala Ser Pro Val Pro Pro Ala Ala Leu Val Thr Val
            20   25   30

Ser Asp Gly Tyr Leu Pro Gly Phe Val Ala Ser Leu Ser Val Phe Ser
        35   40   45

Cys Ser Asp Pro Leu Ala Gly Trp Leu Arg Lys Lys Lys Met Cys Phe
    50   55   60

Arg Cys His Cys Asn Pro Gly His Gln Gly Asn Pro Ser Phe Pro Phe
65   70   75   80

Leu Ile Cys Ser Pro Arg Thr
                85

<210> 204
<211> 252

<212> PRT
<213> Homo sapien

<400> 204

Met Ser Ile Tyr Lys Glu Pro Pro Pro Gly Met Phe Val Val Pro Asp
1   5   10   15

Thr Val Asp Met Thr Lys Ile His Ala Leu Ile Thr Gly Pro Phe Asp
            20   25   30

Thr Pro Tyr Glu Gly Gly Phe Phe Leu Phe Val Phe Arg Cys Pro Pro
            35   40   45

Asp Tyr Pro Ile His Pro Pro Arg Val Lys Leu Met Thr Thr Gly Asn
    50   55   60

Asn Thr Val Arg Phe Asn Pro Asn Phe Tyr Arg Asn Gly Lys Val Cys
65   70   75   80

Leu Ser Ile Leu Gly Thr Trp Thr Gly Pro Ala Trp Ser Pro Ala Gln
                85   90   95

Ser Ile Ser Ser Val Leu Ile Ser Ile Gln Ser Leu Met Thr Glu Asn
            100   105   110

Pro Tyr His Asn Glu Pro Gly Phe Glu Gln Glu Arg His Pro Gly Asp
        115   120   125

Ser Lys Asn Tyr Asn Glu Cys Ile Arg His Glu Thr Ile Arg Val Ala
    130   135   140

Val Cys Asp Met Met Glu Gly Lys Cys Pro Cys Pro Glu Pro Leu Arg
145   150   155   160

Gly Val Met Glu Lys Ser Phe Leu Glu Tyr Tyr Asp Phe Tyr Glu Val
                165   170   175

Ala Cys Lys Asp Arg Leu His Leu Gln Gly Gln Thr Met Gln Asp Pro
            180   185   190

Phe Gly Glu Lys Arg Gly His Phe Asp Tyr Gln Ser Leu Leu Met Arg
        195   200   205

Leu Gly Leu Ile Arg Gln Lys Val Leu Glu Arg Leu His Asn Glu Asn
    210   215   220

Ala Glu Met Asp Ser Asp Ser Ser Ser Ser Gly Thr Glu Thr Asp Leu
225   230   235   240

His Gly Ser Leu Arg Val His Gly Ser Leu Arg Val
            245   250

<210> 205
<211> 91
<212> PRT
<213> Homo sapien

<400> 205

Met Leu Thr Pro Ala Arg Pro Ser Cys His Thr Leu Ser Gly Arg Ser
1   5   10   15

Met Ala Tyr Arg Met Lys Arg Gly Thr Arg Asn Pro Cys Gly Arg Gly
            20   25   30

Leu Asp Leu Lys Gln Cys Pro Leu Trp Leu Leu Leu Pro Trp Leu Thr
        35   40   45

Gly Phe Leu Asp His Val His Phe Thr Gly Pro Trp Asp Leu His Leu
        50   55   60

Leu Ala Ser Pro Ala Gly Leu Ile Pro Ala Arg Ala Pro Ser Phe Leu
65   70   75   80

Leu Met Val Phe Arg Trp Pro Asp His Gly Lys
            85   90

<210> 206
<211> 213
<212> PRT
<213> Homo sapien

<400> 206

Ser Pro His Gln Ala Ala Ala Pro Val Asp Gln Thr Pro Arg Thr Leu
1   5   10   15

Ala Thr Met Gly Gln Arg Ala Leu Pro Ser Ser Leu Ala Leu Leu Ser
            20   25   30

Arg Pro Leu Ser Pro Pro Pro Ala Ala Cys Ser Gly Asp Pro Gly Cys
        35   40   45

Gly Ser Gly Ala Gly Leu Pro Ser Ala Ser Ala Ala Ala Gly Ile Ala
    50   55   60

Ser Ser Ala Val Glu Ala Val Cys Gly Asp Ala Ala Pro Ala Cys Leu
65   70   75   80

Leu Arg Thr Pro Leu Arg Gly Leu Leu Lys Pro Thr Gly Pro Arg Ser
            85   90   95

Thr Met Glu Cys Pro Pro Ala Leu Ile Val His Pro Pro Thr Gly Gly
            100   105   110

Met Ala Arg Arg Ala Ala Ser Gln Pro Trp Ala Ala Ala Ser Ala Thr
        115   120   125

Pro Met Leu Ser Ser Lys Ala Ser Leu Cys Ile Pro Thr Glu Arg Pro
    130   135   140

Pro Pro Gln Pro Leu Met Arg Thr Pro Ala Ala Arg Ser His Trp Pro
145   150   155   160

Ile Pro His Pro Ala Ser Thr Ala Cys Pro Ala Pro Leu Pro Val Val
            165   170   175

Leu Val Ala Pro Arg Ser Thr Ile Leu Ser Met Ser Arg Thr Trp Thr
            180   185   190

Cys Arg Arg Trp Ala Val Ala Pro Cys Arg Ala Glu Lys Leu Met Cys
        195   200   205

Ser Ser Ser Arg Ser
    210

<210> 207
<211> 92
<212> PRT
<213> Homo sapien

<400> 207

Met Tyr Lys Gly Ala Ala Trp Arg Gly Lys Glu His Asn Lys Thr Pro
1   5   10   15

Leu Glu Val Phe Gln Arg Val Val Ser Gln Ile Ser Leu Ile Gln Glu
            20   25   30

Glu Asp Asp Glu Arg Glu Arg Thr Trp Asn Tyr Leu Lys Ser Ser Asn
    35   40   45

Ser Leu Val Leu Phe Asn Lys Lys Glu Phe Trp Phe Val Ala Glu Ser
    50   55   60

Asp Leu Thr Ala Ala Asn Ser Ser Leu Leu Leu Arg Cys Ile Ser Asn
65   70   75   80

Ser Lys Leu Asp Ala Pro Pro Ser Leu Phe Phe Pro
                85   90

<210>   208
<211>   130
<212>   PRT
<213>   Homo sapien

<400>   208

Met Val Cys Glu Asp Ala Pro Ser Phe Gln Met Ala Trp Glu Ser Gln
1   5   10   15

Met Ala Trp Glu Arg Gly Pro Ala Leu Leu Cys Cys Val Leu Ser Ala
            20   25   30

Ser Gln Leu Ser Ser Gln Asp Gln Asp Pro Leu Gly His Ile Lys Ser
        35   40   45

Leu Leu Tyr Pro Phe Gly Phe Pro Val Glu Leu Pro Arg Pro Gly Pro
    50   55   60

Thr Gly Ala Tyr Lys Lys Val Lys Asn Gln Asn Gln Thr Thr Ser Ser
65   70   75   80

Glu Leu Leu Arg Lys Gln Thr Ser His Phe Asn Gln Arg Gly His Arg
            85   90   95

Ala Arg Ser Lys Leu Leu Ala Ser Arg Gln Ile Pro Asp Arg Thr Phe
            100   105   110

Lys Cys Gly Lys Trp Leu Pro Gln Val Pro Ser Pro Val Val Pro Ser
        115   120   125

Pro Val
    130

<210> 209
<211> 63
<212> PRT
<213> Homo sapien

<400> 209

Met Asn Asp Tyr Gly Leu Gly Leu Gly Phe Ile Thr Asn Pro Ile Ile
1   5   10   15

Asp His Leu Phe Pro Ala Leu Gly Ile Thr Ala Lys Pro Asn Gly Ser
            20   25   30

Phe Ser Ile Thr Ala Ser Tyr Asn Phe His Ile Phe Leu Leu Phe Leu
            35   40   45

Thr Gly Leu Gln Val Leu Ser Asn Val Leu Lys Leu Phe Asn Val
        50   55   60

<210> 210
<211> 451
<212> PRT
<213> Homo sapien

<400> 210

Ala Thr Lys Thr Lys Ala Pro Asp Asp Leu Val Ala Pro Val Val Lys
1   5   10   15

Lys Pro His Ile Tyr Tyr Gly Ser Leu Glu Glu Lys Glu Arg Glu Arg
            20   25   30

Leu Ala Lys Gly Glu Ser Gly Ile Leu Gly Lys Asp Gly Leu Lys Ala
            35   40   45

Gly Ile Glu Ala Gly Asn Ile Asn Ile Thr Ser Gly Glu Val Phe Glu
        50   55   60

Ile Glu Glu His Ile Ser Glu Arg Gln Ala Glu Val Leu Ala Glu Phe
65   70   75   80

Glu Arg Arg Lys Arg Ala Arg Gln Ile Asn Val Ser Thr Asp Asp Ser
                85   90   95

Glu Val Lys Ala Cys Leu Arg Ala Leu Gly Glu Pro Ile Thr Leu Phe
            100   105   110

Gly Glu Gly Pro Ala Glu Arg Arg Glu Arg Leu Arg Asn Ile Leu Ser
        115   120   125

Val Val Gly Thr Asp Ala Leu Lys Lys Thr Lys Lys Asp Asp Glu Lys
        130   135   140

Ser Lys Lys Ser Lys Glu Glu Tyr Gln Gln Thr Trp Tyr His Glu Gly
145   150   155   160

Pro Asn Ser Leu Lys Val Ala Arg Leu Trp Ile Ala Asn Tyr Ser Leu
                165   170   175

Pro Arg Ala Met Lys Arg Leu Glu Glu Ala Arg Leu His Lys Glu Ile
            180   185   190

Pro Glu Thr Thr Arg Thr Ser Gln Met Gln Glu Leu His Lys Ser Leu
        195   200   205

Arg Ser Leu Asn Asn Phe Cys Ser Gln Ile Gly Asp Asp Arg Pro Ile
        210   215   220

Ser Tyr Cys His Phe Ser Pro Asn Ser Lys Met Leu Ala Thr Ala Cys
225   230   235   240

Cys Asp Glu Pro Val Ala Asp Ile Glu Gly His Thr Val Arg Val Ala
            245   250   255

Arg Val Met Trp His Pro Ser Gly Arg Phe Leu Gly Thr Thr Cys Tyr
            260   265   270

Asp Arg Ser Trp Arg Leu Trp Asp Leu Glu Ala Gln Glu Glu Ile Leu
        275   280   285

His Gln Glu Gly His Ser Met Gly Val Tyr Asp Ile Ala Phe His Gln
        290   295   300

Asp Gly Ser Leu Ala Gly Thr Gly Gly Leu Asp Ala Phe Gly Arg Val
305   310   315   320

Trp Asp Leu Arg Thr Gly Arg Cys Ile Met Phe Leu Glu Gly His Leu
            325   330   335

Lys Glu Ile Tyr Gly Ile Asn Phe Ser Pro Asn Gly Tyr His Ile Ala
            340   345   350

Thr Gly Ser Gly Asp Asn Thr Cys Lys Val Trp Asp Leu Arg Gln Arg
    355   360   365

Arg Cys Val Tyr Thr Ile Pro Ala His Gln Asn Leu Val Thr Gly Val
    370   375   380

Lys Phe Glu Pro Ile His Gly Asn Phe Leu Leu Thr Gly Ala Tyr Asp
385   390   395   400

Asn Thr Ala Lys Ile Trp Thr His Pro Gly Trp Ser Pro Leu Lys Thr
          405   410   415

Leu Ala Gly His Glu Gly Lys Val Met Gly Leu Asp Ile Ser Ser Asp
        420   425   430

Gly Gln Leu Ile Ala Thr Cys Ser Tyr Asp Arg Thr Phe Lys Leu Trp
      435   440   445

Met Ala Glu
    450

<210> 211
<211> 34
<212> PRT
<213> Homo sapien

<400> 211

Met Glu Ala Gln Gly Cys His Asp Gly Ser Val Val Ile Arg Glu Gly
1   5   10   15

Ala Pro Phe Ile Leu Leu Pro Thr Pro Leu Leu Cys Pro Phe Leu Pro
        20   25   30

Leu Ile

<210> 212
<211> 610
<212> PRT
<213> Homo sapien

<400> 212

Gly Lys Ala Phe Ile Thr Cys Arg Thr Leu Leu Asn His Lys Ser Ile
1   5   10   15

His Phe Gly Asp Lys Pro Tyr Lys Cys Asp Glu Cys Glu Lys Ser Phe
          20   25   30

Asn Tyr Ser Ser Leu Leu Ile Gln His Lys Val Ile His Thr Gly Glu
          35   40   45

Lys Pro Tyr Glu Cys Asp Glu Cys Gly Lys Ala Phe Arg Asn Ser Ser
          50   55   60

Gly Leu Ile Val His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Lys
65   70   75   80

Cys Asp Val Cys Gly Lys Ala Phe Ser Tyr Ser Ser Gly Leu Ala Val
              85   90   95

His Lys Ser Ile His Pro Gly Lys Lys Ala His Glu Cys Lys Glu Cys
          100   105   110

Gly Lys Ser Phe Ser Tyr Asn Ser Leu Leu Leu Gln His Arg Thr Ile
          115   120   125

His Thr Gly Glu Arg Pro Tyr Val Cys Asp Val Cys Gly Lys Thr Phe
          130   135   140

Arg Asn Asn Ala Gly Leu Lys Val His Arg Arg Leu His Thr Gly Glu
145   150   155   160

Lys Pro Tyr Lys Cys Asp Val Cys Gly Lys Ala Tyr Ile Ser Arg Ser
              165   170   175

Ser Leu Lys Asn His Lys Gly Ile His Leu Gly Glu Lys Pro Tyr Lys
          180   185   190

Cys Ser Tyr Cys Glu Lys Ser Phe Asn Tyr Ser Ser Ala Leu Glu Gln
          195   200   205

His Lys Arg Ile His Thr Arg Glu Lys Pro Phe Gly Cys Asp Glu Cys
          210   215   220

Gly Lys Ala Phe Arg Asn Asn Ser Gly Leu Lys Val His Lys Arg Ile
225   230   235   240

His Thr Gly Glu Arg Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Tyr
              245   250   255

Ile Ser Leu Ser Ser Leu Ile Asn His Lys Ser Val His Pro Gly Glu
            260   265   270

Lys Pro Phe Lys Cys Asp Glu Cys Glu Lys Ala Phe Ile Thr Tyr Arg
            275   280   285

Thr Leu Thr Asn His Lys Lys Val His Leu Gly Glu Lys Pro Tyr Lys
            290   295   300

Cys Asp Val Cys Glu Lys Ser Phe Asn Tyr Thr Ser Leu Leu Ser Gln
305   310   315   320

His Arg Arg Val His Thr Arg Glu Lys Pro Tyr Glu Cys Asp Arg Cys
                325   330   335

Glu Lys Val Phe Arg Asn Asn Ser Ser Leu Lys Val His Lys Arg Ile
                340   345   350

His Thr Gly Glu Arg Pro Tyr Glu Cys Asp Val Cys Gly Lys Ala Tyr
            355   360   365

Ile Ser His Ser Ser Leu Ile Asn His Lys Ser Thr His Pro Gly Lys
            370   375   380

Thr Pro His Thr Cys Asp Glu Cys Gly Lys Ala Phe Phe Ser Ser Arg
385   390   395   400

Thr Leu Ile Ser His Lys Arg Val His Leu Gly Glu Lys Pro Phe Lys
                405   410   415

Cys Val Glu Cys Gly Lys Ser Phe Ser Tyr Ser Ser Leu Leu Ser Gln
                420   425   430

His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Val Cys Asp Arg Cys
            435   440   445

Gly Lys Ala Phe Arg Asn Ser Ser Gly Leu Thr Val His Lys Arg Ile
            450   455   460

His Thr Gly Glu Lys Pro Tyr Glu Cys Asp Glu Cys Gly Lys Ala Tyr
465   470   475   480

Ile Ser His Ser Ser Leu Ile Asn His Lys Ser Val His Gln Gly Lys
                485   490   495

Gln Pro Tyr Asn Cys Glu Cys Gly Lys Ser Phe Asn Tyr Arg Ser Val
            500   505   510

Leu Asp Gln His Lys Arg Ile His Thr Gly Lys Lys Pro Tyr Arg Cys
            515   520   525

Asn Glu Cys Ala His Ile Pro Asn Ala Thr Ala Asp Leu Met Lys Val
            530   535   540

Asp His Glu Glu Glu Pro Gln Leu Ser Glu Pro Tyr Leu Ser Lys Gln
545   550   555   560

Lys Lys Leu Met Ala Lys Ile Leu Glu His Asp Asp Val Ser Tyr Leu
            565   570   575

Lys Lys Ile Leu Gly Glu Leu Ala Met Val Leu Asp Gln Ile Glu Ala
            580   585   590

Glu Leu Glu Lys Arg Lys Leu Glu Asn Glu Ala Leu Ser Gln Trp Lys
            595   600   605

Glu Phe
    610

<210>   213
<211>   47
<212>   PRT
<213>   Homo sapien

<400>   213

Met Cys Ala Lys Trp Gly Glu Ile Gly Ala Gly Lys Pro Ile Pro His
1   5   10   15

Arg Gly Pro Ala Leu Ala Pro Gly Ser Pro His Ala Phe Phe Val Phe
            20   25   30

Phe Phe Phe Phe Ala Ser Asp Gln Phe Thr Thr Val Ser Trp Thr
            35   40   45

<210>   214
<211>   25
<212>   PRT
<213>   Homo sapien

<400>   214

Met Glu Thr Pro Ser Leu Glu Gly Thr Pro Arg Lys Pro Cys His Gly
1   5   10   15

Leu Leu Ser Leu Ser Ser Leu Leu Leu
            20   25

<210> 215
<211> 29
<212> PRT
<213> Homo sapien

<400> 215

Met Ser Ser Tyr Gly Met Gln Gly Thr Val Gly Ser Arg Val Ser Ile
1   5   10   15

Leu Pro Thr Arg Ala Gln Gly Gln Ala Gly Glu Val Arg
            20   25

<210> 216
<211> 64
<212> PRT
<213> Homo sapien

<400> 216

Met Val Thr Leu Asp Leu Leu Glu Arg Ala Gln Cys Asp Gly Ser Trp
1   5   10   15

Ser Arg Arg Gly Thr Pro Leu Leu Phe Tyr Phe Phe Cys Lys Val Leu
            20   25   30

Thr Leu Glu Gly Tyr Ser Ile Gln Ser Leu Asn Met Phe Phe Lys Arg
        35   40   45

Asn Lys Glu Gln Ala Thr Ala Leu Leu Glu Ile Thr Asn Arg Phe Leu
    50   55   60

<210> 217
<211> 50
<212> PRT
<213> Homo sapien

<400> 217

Met Glu Pro His Ile Met Lys Phe Asn Ser His Val Lys Thr Phe Cys
1   5   10   15

Ile Val Gly Cys Gln Lys Tyr Phe Pro Asn Phe Arg Leu Thr Cys Arg

                        20   25   30

Val Gly Asp Gly Leu Pro Pro Tyr Asn Phe Lys Phe Val Ser Gln Ser
        35   40   45

Leu Ala
    50

<210> 218
<211> 785
<212> PRT
<213> Homo sapien

<400> 218

Lys Ala Lys Ile Ser Trp Glu Ala Pro Val Glu Lys Lys Thr Glu Cys
1   5   10   15

Ile Gln Lys Gly Lys Asn Asn Gln Val Gly Ala Trp Thr Leu Leu Leu
            20   25   30

Val Leu Pro Ser Pro Gln Asp Val Ser Ser His Ser Gly Pro Arg Ala
        35   40   45

Leu Thr Asn Arg Thr Pro Phe Cys Pro Gln Thr Glu Cys Phe Asn Phe
    50   55   60

Ile Arg Phe Leu Gln Pro Tyr Asn Ala Ser His Leu Tyr Val Cys Gly
65   70   75   80

Thr Tyr Ala Phe Gln Pro Lys Cys Thr Tyr Val Asn Met Leu Thr Phe
                85   90   95

Thr Leu Glu His Gly Glu Phe Glu Asp Gly Lys Gly Lys Cys Pro Tyr
            100   105   110

Asp Pro Ala Lys Gly His Ala Gly Leu Leu Val Asp Gly Glu Leu Tyr
        115   120   125

Ser Ala Thr Leu Asn Asn Phe Leu Gly Thr Glu Pro Ile Ile Leu Arg
    130   135   140

Asn Met Gly Pro His His Ser Met Lys Thr Glu Tyr Leu Ala Phe Trp
145   150   155   160

Leu Asn Glu Pro His Phe Val Gly Ser Ala Tyr Val Pro Glu Ser Val

165   170   175

Gly Ser Phe Thr Gly Asp Asp Asp Lys Val Tyr Phe Phe Arg Glu
         180   185   190

Arg Ala Val Glu Ser Asp Cys Tyr Ala Glu Gln Val Val Ala Arg Val
      195   200   205

Ala Arg Val Cys Lys Gly Asp Met Gly Gly Ala Arg Thr Leu Gln Arg
    210   215   220

Lys Trp Thr Thr Phe Leu Lys Ala Arg Leu Ala Cys Ser Ala Pro Asn
225   230   235   240

Trp Gln Leu Tyr Phe Asn Gln Leu Gln Ala Met His Thr Leu Gln Asp
         245   250   255

Thr Ser Trp His Asn Thr Thr Phe Phe Gly Val Phe Gln Ala Gln Trp
         260   265   270

Gly Asp Met Tyr Leu Ser Ala Ile Cys Glu Tyr Gln Leu Glu Glu Ile
         275   280   285

Gln Arg Val Phe Glu Gly Pro Tyr Lys Glu Tyr His Glu Glu Ala Gln
      290   295   300

Lys Trp Asp Arg Tyr Thr Asp Pro Val Pro Ser Pro Arg Pro Gly Ser
305   310   315   320

Cys Ile Asn Asn Trp His Arg Arg His Gly Tyr Thr Ser Ser Leu Glu
         325   330   335

Leu Pro Asp Asn Ile Leu Asn Phe Val Lys Lys His Pro Leu Met Glu
         340   345   350

Glu Gln Val Gly Pro Arg Trp Ser Arg Pro Leu Leu Val Lys Lys Gly
         355   360   365

Thr Asn Phe Thr His Leu Val Ala Asp Arg Val Thr Gly Leu Asp Gly
         370   375   380

Ala Thr Tyr Thr Val Leu Phe Ile Gly Thr Gly Asp Gly Trp Leu Leu
385   390   395   400

Lys Ala Val Ser Leu Gly Pro Trp Val His Leu Ile Glu Glu Leu Gln
            405   410   415

Leu Phe Asp Gln Glu Pro Met Arg Ser Leu Val Leu Ser Gln Ser Lys
            420   425   430

Val Lys Leu Leu Phe Ala Gly Ser Arg Ser Gln Leu Val Gln Leu Pro
        435   440   445

Val Ala Asp Cys Met Lys Tyr Arg Ser Cys Ala Asp Cys Val Leu Ala
        450   455   460

Arg Asp Pro Tyr Cys Ala Trp Ser Val Asn Thr Ser Arg Cys Val Ala
465   470   475   480

Val Gly Gly His Ser Gly Ser Leu Leu Ile Gln His Val Met Thr Ser
                485   490   495

Asp Thr Ser Gly Ile Cys Asn Leu Arg Gly Ser Lys Lys Val Arg Pro
            500   505   510

Thr Pro Lys Asn Ile Thr Val Val Ala Gly Thr Asp Leu Val Leu Pro
            515   520   525

Cys His Leu Ser Ser Asn Leu Ala His Ala Arg Trp Thr Phe Gly Gly
            530   535   540

Arg Asp Leu Pro Ala Glu Gln Pro Gly Ser Phe Leu Tyr Asp Ala Arg
545   550   555   560

Leu Gln Ala Leu Val Val Met Ala Ala Gln Pro Arg His Ala Gly Ala
                565   570   575

Tyr His Cys Phe Ser Glu Glu Gln Gly Ala Arg Leu Ala Ala Glu Gly
            580   585   590

Tyr Leu Val Ala Val Val Ala Gly Pro Ser Val Thr Leu Glu Ala Arg
        595   600   605

Ala Pro Leu Glu Asn Leu Gly Leu Val Trp Leu Ala Val Val Ala Leu
        610   615   620

Gly Ala Val Cys Leu Val Leu Leu Leu Leu Val Leu Ser Leu Arg Arg
625   630   635   640

Arg Leu Arg Glu Glu Leu Glu Lys Gly Ala Lys Ala Thr Glu Arg Thr
            645   650   655

Leu Val Tyr Pro Leu Glu Leu Pro Lys Glu Pro Thr Ser Pro Pro Phe
            660   665   670

Arg Pro Cys Pro Glu Pro Asp Glu Lys Leu Trp Asp Pro Val Gly Tyr
            675   680   685

Tyr Tyr Ser Asp Gly Ser Leu Lys Ile Val Pro Gly His Ala Arg Cys
            690   695   700

Gln Pro Gly Gly Gly Pro Pro Ser Pro Pro Pro Gly Ile Pro Gly Gln
705   710   715   720

Pro Leu Pro Ser Pro Thr Arg Leu His Leu Gly Gly Gly Arg Asn Ser
            725   730   735

Asn Ala Asn Gly Tyr Val Arg Leu Gln Leu Gly Gly Glu Asp Arg Gly
            740   745   750

Gly Leu Gly His Pro Leu Pro Glu Leu Ala Asp Glu Leu Arg Arg Lys
            755   760   765

Leu Gln Gln Arg Gln Pro Leu Pro Asp Ser Asn Pro Glu Glu Ser Ser
            770   775   780

Val
785

<210> 219
<211> 66
<212> PRT
<213> Homo sapien

<400> 219

Met Lys Met Arg Ala Lys Ile Leu His Gln Asn Gly Asn Asp Pro Ile
1   5   10   15

Ser Pro Val Lys Ala Glu Trp Val Glu Trp Gly Leu Arg Val Trp Ile
            20   25   30

Gln Cys Phe Glu Leu His Ser Ser Arg Glu Ala Val Gln Lys Gly Gly
            35   40   45

Ile Leu Gly Asn Leu Arg Lys Ile Val Gly Glu Thr Ser Phe Leu Leu
    50   55   60

Val Ser
65

<210>   220
<211>   128
<212>   PRT
<213>   Homo sapien

<400>   220

Glu Val Glu Gly Arg Ser Ala Cys Met Ala Met Gly Leu Phe Phe Ile
1   5   10   15

Pro Phe Leu Asn Cys Thr Gln Gln Gln Trp Phe Leu Leu Gly Leu Leu
            20   25   30

Lys Thr Ala Gly Ile Trp Glu Lys Glu His His Arg Leu Ser Gln His
        35   40   45

Gly Asn Ile Asn Leu Ile Pro Glu Lys Gly Arg Ser Pro Gln Arg Tyr
    50   55   60

Val Arg Phe Asn Ser Phe Ser Ser Gly Pro Gly Ser Ser Phe Ser Cys
65   70   75   80

Ser Gly Leu Asn Arg Asp Ala Leu Ile Ser Leu Gly Ile Leu Leu Leu
            85   90   95

Val Leu Ser Leu Thr Ser Gly Ala Lys Ile Arg Arg Pro Glu Phe Gln
            100   105   110

Ile Tyr Ser Val Thr Gln Ser Leu Leu Gln Ser Leu Arg Asp Val Val
        115   120   125

<210>   221
<211>   64
<212>   PRT
<213>   Homo sapien

<400>   221

Met Gly Ile Leu Glu Pro Gln Asp Val Arg Ala Gly Arg Asp Ala Ile
1   5   10   15

Pro Val Tyr Thr Arg Gly Asn Ser Ser Arg Leu Trp Glu Gly Arg Arg
20   25   30

Val Leu Val Thr Glu Arg Glu Leu Lys Leu Arg Ile Pro Glu Ser Arg
35   40   45

Ser Cys Leu Pro Ser Ala Ile Phe Leu Pro Ile Asn Leu Cys Tyr Val
50   55   60

<210> 222
<211> 105
<212> PRT
<213> Homo sapien

<400> 222

Cys Lys Leu Phe Gly Arg Val Gly Asp Ala Val Ser Phe Cys His Pro
1   5   10   15

Gly Trp Ser Ala Val Ala Arg Ser Gln Leu Thr Ala Thr Ser Ala Leu
20   25   30

Gln Gly Ser Gly Asn Ser Ala Ser Val Ser Ala Val Ala Gly Ile Thr
35   40   45

Gly Met Arg His His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr
50   55   60

Arg Phe His His Val Gly Gln Asp Gly Leu Glu Pro Leu Thr Ser Gly
65   70   75   80

Asp Leu Pro Ile Ser Ala Ser Gln Ser Ala Gly Ile Thr Ser Val Ser
85   90   95

His Arg Ala Arg Pro Ala Asn Phe Phe
100   105

<210> 223
<211> 109
<212> PRT
<213> Homo sapien

<400> 223

Met Met Trp Leu Ser Val Gly Gly Gly Gly Arg Glu Trp Ser Glu Met
1   5   10   15

Leu Gly Val Val Trp Trp Trp Gly Gly Val Gly Val Trp Val Gly Val

```
        20                      25                        30


Gly Val Cys Gly Cys Val Trp Trp Val Val Val Gly Val Trp Trp Trp
        35                  40                  45


Arg Cys Val Gly Cys Gly Cys Val Val Trp Trp Gly Gly Val Val Gly
    50                  55                  60


Val Gly Gly Cys Trp Gly Gly Cys Val Cys Val Val Gly Val Cys Val
65                  70                  75                      80


Cys Val Gly Gly Gly Val Val Gly Arg Val Val Gly Gly Ala Gly Val
                85                  90                  95


Cys Gly Gly Arg Cys Gly Cys Cys Val Val Trp Trp Cys
                100                 105
```

```
<210>  224
<211>  196
<212>  PRT
<213>  Homo sapien

<400>  224

Thr Arg Pro Gln Ser His Thr Thr Thr Glu His Pro Pro Pro Pro Pro
1               5                   10                  15


Thr Thr Ile His Ile Thr Gln Thr Leu His Lys Lys Thr Asn Thr Thr
            20                  25                  30


Asn Thr Gln Gln Lys Lys His Thr Asn Thr Gln Ile Thr Ile Thr Gln
        35                  40                  45


Gln His Thr Pro Gln His Thr Thr Thr Pro Pro Thr Pro His His Ser
    50                  55                  60


Thr Pro Pro His Asn Thr Thr Pro Ala Pro Pro Pro His Thr Pro Ala
65                  70                  75                      80


Pro Pro Thr Thr Arg Pro Thr Thr Pro Pro Pro Thr His Thr His Thr
                85                  90                  95


Pro Thr Thr His Thr His Pro Pro Gln His Pro Pro Thr Pro Thr Thr
                100                 105                 110


Thr Thr Pro Pro His His Ala Pro Thr Pro His Thr Pro Pro Pro Thr
```

```
                    115                      120                         125


Thr Pro Pro Arg Pro Pro Thr Thr His Thr His Thr Pro Pro His Pro
    130                 135             140

Pro Thr Pro Pro Pro Leu Pro Thr Thr Thr Pro His Pro Thr Ser His
145                 150             155                 160

Ser Thr Leu Ser Pro His His Pro His Ser Thr Thr Ser Ser Leu Pro
                165             170                 175

Ser Thr His Asn Asn Ile Thr Asn Thr Pro Pro Ala His Thr Leu Thr
                180             185             190

Pro His Thr Ser
        195


<210> 225
<211> 92
<212> PRT
<213> Homo sapien

<400> 225

Met Thr Ser Leu Pro Glu Gly Pro Arg Ala Ser Glu Asp Gly Ala Thr
1               5                   10                  15

Pro Glu Ala Gly Gly Phe Thr Asn Ser Ser His Leu Tyr Arg Arg Pro
                20                  25                  30

Ala Arg Cys Gln Ala Cys Trp Gln Ala Gln Gly Lys Ala His Ser Thr
            35              40                  45

Ser Arg His Gly Pro Cys Ser His Gly Ala Tyr Ser Leu Ala Arg Gln
    50              55                  60

Thr Arg Asn Lys Lys Leu Gln Ser Ser Val Glu Val Cys Arg Val Val
65                  70                  75                  80

Gly Tyr Ser Asp Leu Ala Leu Tyr Thr His Phe Ala
                85                  90


<210> 226
<211> 42
<212> PRT
<213> Homo sapien
```

<400> 226

Met Lys Ile Tyr Gly Ser Val Phe Gln Asn Asp Glu Glu Phe Gln Asp
1   5   10   15

Gly Gly Ser Gly Lys Ile Leu Leu Gln Glu Lys Ser Val Leu Gly Pro
            20   25   30

Met Cys Lys His Leu Leu Arg Asn Leu Glu
            35   40

<210> 227
<211> 57
<212> PRT
<213> Homo sapien

<400> 227

Met Leu Ser Gln Arg Tyr Arg Lys Val Leu Leu Gly Pro Ser Val Thr
1   5   10   15

Leu Ser Phe His Ile Pro Thr Leu His Arg Pro Ser Leu Gln Leu Pro
            20   25   30

Ala Pro Ala Pro His Cys Arg Ser Pro Gly Phe Cys Leu Glu Leu Asn
            35   40   45

Glu Glu Met Gly Pro Leu Ala Leu Ala
      50   55

<210> 228
<211> 205
<212> PRT
<213> Homo sapien

<400> 228

Gln Gln Gly Lys Leu Val Ala Asp Ser Ala Lys His Leu Gly Leu Lys
1   5   10   15

His Val Val Tyr Ser Gly Leu Glu Asn Val Lys Arg Leu Thr Asp Gly
            20   25   30

Lys Leu Glu Val Pro His Phe Asp Ser Lys Gly Glu Val Glu Glu Tyr
            35   40   45

Phe Trp Ser Ile Gly Ile Pro Met Thr Ser Val Arg Val Ala Ala Tyr
      50   55   60

Phe Glu Asn Phe Leu Ala Ala Trp Arg Pro Val Lys Ala Ser Asp Gly
65   70   75   80

Asp Tyr Tyr Thr Leu Ala Val Pro Met Gly Asp Val Pro Met Asp Gly
            85   90   95

Ile Ser Val Ala Asp Ile Gly Ala Ala Val Ser Ser Ile Phe Asn Ser
            100   105   110

Pro Glu Glu Phe Leu Gly Lys Ala Val Gly Leu Ser Ala Glu Ala Leu
        115   120   125

Thr Ile Gln Gln Tyr Ala Asp Val Leu Ser Lys Ala Leu Gly Lys Glu
        130   135   140

Val Arg Asp Ala Lys Ile Thr Pro Glu Ala Phe Glu Lys Leu Gly Phe
145   150   155   160

Pro Ala Ala Lys Glu Ile Ala Asn Met Cys Arg Phe Tyr Glu Met Lys
            165   170   175

Pro Asp Arg Asp Val Asn Leu Thr His Gln Leu Asn Pro Lys Val Lys
            180   185   190

Ser Phe Ser Gln Phe Ile Ser Glu Asn Gln Gly Ala Phe
        195   200   205

<210> 229
<211> 46
<212> PRT
<213> Homo sapien

<400> 229

Met Lys Lys Lys Val Leu Ser Ile Ile Cys Ile Ile Gly Ile His Met
1   5   10   15

Ser Leu His Lys Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr
            20   25   30

Val Leu Leu Ser Val Val Cys Phe Ser Phe Leu Ile Leu Ser
        35   40   45

<210> 230
<211> 53
<212> PRT

<213> Homo sapien

<400> 230

Val Ala Gln Ala Gly Val Gln Trp Arg Asn Ala Asn Ser Leu Gln Pro
1   5   10   15

Ala Pro Ser Trp Leu Lys Gln Ala Leu His Leu Ser Pro Leu Ser Ser
            20   25   30

Ala His Tyr Arg His Thr Pro Pro His Pro Ala Asn Phe Phe Glu Phe
        35   40   45

Leu Glu Thr Gly Phe
    50

<210> 231
<211> 30
<212> PRT
<213> Homo sapien

<400> 231

Met Gly Gln Val Gly Val Arg Gly Pro Gly Glu Val Arg Ala Leu Ser
1   5   10   15

Ser Lys Leu Ser Tyr Cys His Val Phe Val Pro Arg Arg Asp
            20   25   30

<210> 232
<211> 39
<212> PRT
<213> Homo sapien

<400> 232

Met Val Phe Leu Gly Glu Leu Lys Thr Phe Ser Leu Val Ser Val Asn
1   5   10   15

Gln Arg Ala Phe Ser Leu Phe Leu Leu Leu Ile Pro Ser Ser Pro Val
            20   25   30

Asn Tyr Phe Ser Phe His Trp
        35

<210> 233
<211> 107
<212> PRT
<213> Homo sapien

<400> 233

Phe Phe Phe Phe Leu Leu Leu Phe Cys Asp Ser Leu Ala Leu Ser Pro
1   5   10   15

Arg Leu Gln Cys Ser Gly Thr Ile Ser Ala His Cys Asn Leu Cys Leu
            20   25   30

Leu Gly Ser Ser Asn Ser Pro Val Ser Ala Ser Trp Val Ala Gly Thr
        35   40   45

Thr Gly Ala Cys His His Ala Trp Leu Thr Phe Val Phe Leu Val Glu
    50   55   60

Thr Gly Phe His His Val Gly Gln Ala Gly Leu Glu Phe Leu Thr Ser
65   70   75   80

Gly Asp Pro Pro Ala Leu Ala Ser Gln Ser Ala Glu Ile Thr Gly Val
            85   90   95

Ser His Arg Ala Trp Pro Val Cys Phe Phe Asn
            100   105

<210> 234
<211> 57
<212> PRT
<213> Homo sapien

<400> 234

Met Cys Ile Ile Leu Ser Ala His Ala Val Leu Gln Ala Ser Val Pro
1   5   10   15

Leu Ala Val His Val Ser Pro His Ala Arg Ala Gly Pro Ser Trp Ser
            20   25   30

Ala Leu Val Ser Lys Trp Val Tyr Ala Glu Ala Asp Phe Gln Ser Val
        35   40   45

Ser Cys Pro Pro Ile Gln His Ser Arg
    50   55

<210> 235
<211> 50
<212> PRT
<213> Homo sapien

<400> 235

```
Met Lys Val Pro Ala Tyr Ile Asn His Leu Ala Arg Trp Trp Glu Ile
1               5                   10                  15

Leu Cys Ser Ser Asn Val Leu Leu Val Leu Gly Arg Asp Gly Ala His
                20              25              30

Ser Gly Ala Lys Glu Asp Lys Lys Ser Met Gln Asn Leu Ser Leu Leu
            35              40              45

Met Ala
    50
```

<210> 236
<211> 44
<212> PRT
<213> Homo sapien

<400> 236

```
Met His Asn Trp Asp Cys Trp Asn Gly Pro Arg His Thr Thr Ala Gly
1               5                   10                  15

His Cys His Gln Glu Gly Ala Cys Val Leu Glu Gly Ser Gly Gln His
                20              25              30

Arg Leu Ala Asn Leu Glu Gly Ser Gln Arg Asp Ser
            35              40
```

<210> 237
<211> 146
<212> PRT
<213> Homo sapien

<400> 237

```
Met Gly Ala Arg Val Pro His Ala Ala Asp Gly Pro Ser Gln Val Glu
1               5                   10                  15

Leu Pro Gly Val Gln Ser Gly Ser Pro Leu Ala Asp Leu Met Leu Ser
                20              25              30

Asp Arg Trp Asp Lys Phe Phe Cys His Ser Ala Gly Leu Cys Pro Glu
            35              40              45

Ala Ser Leu Leu Ala Gly Cys Ala His Ala Trp Glu Lys Ala Trp Ala
    50              55              60
```

```
Val Asn Tyr Gly His Thr Cys Ser Leu Cys Gly His Cys Ser Pro Ala
65              70          75              80


Pro Ile Pro Ile Pro Pro His Pro Thr His Pro Asn Thr His Thr Pro
            85          90              95


Arg Pro Gln Thr Pro Thr Pro Thr Thr Pro His Pro Pro Thr Pro Thr
        100         105         110


Pro Pro His Pro Pro Gln His Pro His Pro Arg Pro Pro Pro Thr Ser
        115         120         125


Thr His Pro Pro Thr His Asn Thr Pro His Thr Thr His His Gln His
    130         135         140


His His
145


<210>   238
<211>   47
<212>   PRT
<213>   Homo sapien

<400>   238

Met Tyr Arg Gln Tyr Gly Pro Trp Cys Thr Asn Ala Ala Ser Gly Arg
1               5           10              15


Arg Asp Val Met Asp Gly Arg Gly Arg Gly Thr Phe Asn Pro Ser Ser
            20          25              30


Pro Phe Pro Pro Ser Gly Ala Ser Tyr Glu Ile Ser Val His Phe
        35          40              45


<210>   239
<211>   91
<212>   PRT
<213>   Homo sapien

<400>   239

Met Val Lys Ile Ser Phe Gln Pro Ala Val Ala Gly Ile Lys Gly Asp
1               5           10              15


Lys Ala Asp Lys Ala Ser Ala Ser Ala Pro Ala Pro Ala Ser Ala Thr
            20          25              30


Glu Ile Leu Leu Thr Pro Ala Arg Glu Glu Gln Pro Pro Gln His Arg
```

```
                35                        40                        45

    Ser Lys Arg Gly Gly Ser Val Gly Gly Val Cys Tyr Leu Ser Met Gly
        50                  55                  60

    Met Val Val Leu Leu Met Gly Leu Val Phe Ala Ser Val Tyr Ile Tyr
    65                  70                  75                  80

    Arg Tyr Phe Phe Leu Ala Gln Leu Ala Arg Asp
                    85                  90


    <210>   240
    <211>   188
    <212>   PRT
    <213>   Homo sapien

    <400>   240

    Met Arg Leu Val Gly Gly Val Gly Ser Phe Arg Leu Gly Gly Val Gly
    1               5                   10                  15

    Cys Gly Gly Gly Gly Gly Gly Ala Gly Ala Gly Ser Trp Val Trp Met
                    20                  25                  30

    Gly Gly Trp Gly Gly Gly Ala Gly Ala Leu Trp Val Ala Val Val Gly
                35                  40                  45

    Gly Ala Arg Trp Trp Gly Gly Ala Gly Trp Gly Ser Cys Gly Arg Val
        50                  55                  60

    Leu Val Gly Gly Arg Ala Val Val Val Gly Arg Val Gly Val Val Gly
    65                  70                  75                  80

    Trp Gly Trp Trp Arg Val Val Val Ala Gly Cys Val Cys Gly Gly Gly
                    85                  90                  95

    Trp Arg Trp Trp Arg Ala Gly Val Gly Gly Gly Gly Gly Ala Val Ser
                    100                 105                 110

    Gly Pro Ser Gly Ala Gly Pro Gly Arg Arg Cys Ser Met Val Glu Arg
                115                 120                 125

    Arg Arg Gly His Val Gly Ser Gly Gly Trp Ala Gly Arg Pro Gly Val
        130                 135                 140

    Val Gly Val Trp Ala Arg Cys Val Leu Val Ala Gly Ala Val Trp Arg
```

```
         145                    150                    155                    160
```

Arg Gly Gly Ala Val Trp Glu Trp Arg Gly Leu Gly Cys Gly Ala Trp
                165   170   175

Cys Val Gly Arg Ser Trp Gly Glu Cys Gly Gly Arg
                180   185

<210> 241
<211> 110
<212> PRT
<213> Homo sapien

<400> 241

Met Lys Leu Thr Leu Ser Glu Val Lys Met Glu Val Ile Gly Val Pro
1   5   10   15

Trp Arg Asn Gly Ser His Cys Phe Ile Ser Ile Thr Pro Gln Leu Lys
                20   25   30

Phe Thr Pro Val Ser Gly His Lys Asn Met Arg Lys Glu Pro Cys Cys
            35   40   45

Phe His Lys Gly Asn His Ser Ser Leu Ser Pro Leu Leu Ile Asn Leu
        50   55   60

Lys Ser Trp Thr Pro Ser Phe Leu His Trp Pro Arg Pro Thr Leu Thr
65   70   75   80

His Leu Glu Pro Leu Phe Arg Ala Glu Trp His Glu Tyr Val Tyr Leu
                85   90   95

Gly Arg Asp Gln Ser Ile Thr Gln Arg Arg Leu Glu Gln His
                100   105   110

<210> 242
<211> 102
<212> PRT
<213> Homo sapien

<400> 242

Met Pro Ser Leu Pro Thr Arg Ser Leu Leu Ser Pro Cys Val Leu Glu
1   5   10   15

Leu Glu Glu Leu Thr Cys Ala Leu Cys Thr Trp Ala Phe Leu Leu Leu
                20   25   30

```
Cys Leu Ala Leu Val Ala Asp Cys Pro Gly Leu Arg Gln Val Ile Pro
        35                  40              45

Gly Lys Gln Val Phe Val Leu Phe Ser Met Ser Gly Gly Arg Phe Ile
    50                  55              60

Leu Leu Ser Val Ser Ser His Phe Pro Ile Pro Phe Lys Lys Leu Trp
65                  70              75                  80

Pro Ala Gln Gly Arg Ala Leu Ser Cys Cys Ile Thr Ala Glu Pro Thr
            85                  90                  95

Cys Pro His Ala Leu Leu
            100
```

```
<210>   243
<211>   86
<212>   PRT
<213>   Homo sapien

<400>   243
```

```
Leu Ala Val Ser Leu Cys His Gln Ala Gly Val Gln Trp Cys Asn Pro
1               5                  10                  15

Gly Ser Leu Gln Pro Pro Pro Gly Phe Lys Arg Phe Phe Cys Leu
                20              25                  30

Cys Leu Pro Ser Ser Trp Gly Tyr Arg His Thr Pro Pro Arg Pro Ala
        35                  40                  45

Asn Phe Cys Val Phe Gly Arg Asp Gly Val Ser Pro Cys Trp Pro Gly
    50                  55                  60

Trp Ser Leu Ser Leu Asp Val Ile Cys Asp Pro Pro Arg Gln Pro Pro
65                  70                  75                  80

Lys Val Leu Gly Leu Gln
                85
```

```
<210>   244
<211>   53
<212>   PRT
<213>   Homo sapien

<400>   244
```

Met Leu Leu Pro Phe Ala Val Arg Gly Leu Leu Thr Met Ala Arg Gly
1   5   10   15

Asp Val Ser Glu Ile Gln Val Val Val Ala Ser Trp Ser Thr Gln Leu
            20   25   30

Ala His Met Gln Glu Glu Gly Leu Trp Pro Leu Ser Arg Ala Gly Gly
        35   40   45

Leu Leu Pro Gln Ala
    50

<210> 245
<211> 183
<212> PRT
<213> Homo sapien

<400> 245

Leu Thr Pro Ala Gly Val Pro Trp Cys His Leu Gly Ser Leu Gln Pro
1   5   10   15

Leu Pro Pro Arg Phe Lys Ala Val Phe Ser Arg Leu Ala Pro Ser Leu
            20   25   30

Glu Tyr Ala Trp Asp Tyr Arg Ala Pro Thr Ser His Ala Arg Leu Ile
        35   40   45

Ser Leu Ala Phe Leu Val Glu Thr Gly Phe Ser Pro Thr Val Ala Arg
    50   55   60

Leu Val Ser Asn Ser Trp Pro Pro Val Val Arg Pro Pro Leu Pro Ser
65   70   75   80

Gln Ser Ala Gly Ile Thr Gly Val Gly Pro Pro Cys Leu Ala Arg Pro
                85   90   95

Ile Leu Pro Pro His Pro Phe Phe Phe Phe Phe Asp Met Glu Ser His
            100   105   110

Ala Ile Thr Gln Ala Gly Val Gln Trp Arg His Leu Gly Ser Leu Gln
        115   120   125

Pro Pro Pro Pro Met Phe Lys Ala Ser Ser Cys Leu Ser Leu Leu Ser
    130   135   140

Ser Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Ile Phe Cys Ile
145   150   155   160

Phe Ser Arg Asp Gly Val Ser Pro Cys Ala Pro Gly Trp Ser Arg Ser
            165   170   175

Pro Asp Leu Thr Pro Asp Leu
            180

<210> 246
<211> 12
<212> PRT
<213> Homo sapien

<400> 246

Met Ala Pro Asp Thr Asn Thr Phe Leu His Pro Phe
1   5   10

<210> 247
<211> 240
<212> PRT
<213> Homo sapien

<400> 247

Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His
1   5   10   15

His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu Gly Leu
            20   25   30

Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu
            35   40   45

Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe Leu Arg Ser Phe
    50   55   60

Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly Thr Val Thr Gly Lys Trp
65   70   75   80

Arg Gly Ser His Val Val Gly Leu Leu Thr Thr Leu Asn Phe Gly Asp
                85   90   95

Gly Pro Asp Arg Asn Lys Thr Arg Thr Phe Gln Ala Thr Val Leu Gly
            100   105   110

```
Ser Gln Met Gly Leu Lys Gly Ser Ser Ala Gly Gln Leu Val Leu Ile
        115                 120                 125

Thr Ala Arg Val Thr Thr Glu Arg Thr Ala Gly Thr Cys Leu Tyr Phe
        130                 135                 140

Ser Ala Val Pro Gly Ile Leu Pro Ser Ser Gln Pro Pro Ile Ser Cys
145                 150                 155                 160

Ser Glu Glu Gly Ala Gly Asn Ala Thr Leu Ser Pro Arg Met Gly Glu
                165                 170                 175

Glu Cys Val Ser Val Trp Ser His Glu Gly Leu Val Leu Thr Lys Leu
                180                 185                 190

Leu Thr Ser Glu Glu Leu Ala Leu Cys Gly Ser Arg Leu Leu Val Leu
        195                 200                 205

Gly Ser Phe Leu Leu Leu Phe Cys Gly Leu Leu Cys Cys Val Thr Ala
        210                 215                 220

Met Cys Phe His Pro Arg Arg Glu Ser His Trp Ser Arg Thr Arg Leu
225                 230                 235                 240
```

<210> 248
<211> 75
<212> PRT
<213> Homo sapien

<400> 248

```
Met Arg Arg Ala Val Ala Ser Val Met Tyr Arg Trp Ser Arg Pro Arg
1               5                   10                  15

Tyr Thr Gln Glu Ala Arg Arg Tyr Phe Phe Ser Glu Leu Ser Pro
                20                  25                  30

Gly Ser Lys Gly Glu Ala Met Gly Asp Pro Gly Met Val Leu Ala Ser
        35                  40                  45

Gly Gly Cys Phe Leu Val Thr Gly Val Ser Ser Lys Gln Asn Gly Ile
        50                  55                  60

Arg Met Lys Arg Gly Lys Gly Met Gly His Lys
65                  70                  75
```

<210> 249
<211> 594
<212> PRT
<213> Homo sapien

<400> 249

Val Pro Gly Arg Lys Leu His Arg Ser Arg Leu Gln Ala Ala Ala Pro
1   5   10   15

Arg Pro Ser Thr Cys Ala Gln Ser Leu Cys Trp Ser Arg Pro Pro Ala
                20   25   30

Ala Gly Thr Gly Thr Gly Asp Pro Ser Gln Ser Lys Ala Pro Thr Met
            35   40   45

Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile Ile
    50   55   60

Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu Asn
65   70   75   80

Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu Gln
                85   90   95

Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala Glu
            100   105   110

Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn Glu
        115   120   125

Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu Phe
    130   135   140

Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser Pro
145   150   155   160

Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Leu Gly Gly Ala
                165   170   175

Pro Leu Gln Gly Leu Thr Leu Pro Asn Lys Ala Thr Leu Gly His Phe
            180   185   190

Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr Arg
        195   200   205

```
Glu Phe Leu Glu Gly Phe Val Asp Asp Leu Leu Glu Ala Leu Arg Ser
    210             215             220
```

```
Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly Val
225             230             235                 240
```

```
Asp Ser Met Tyr Glu Asn Trp Gln Val Asp Arg Pro Leu Leu Cys His
            245             250                 255
```

```
Leu Phe Val Pro Phe Thr Pro Pro Glu Pro Tyr Arg Phe His Pro Glu
            260             265             270
```

```
Leu Trp Cys Ser Gly Arg Ser Val Pro Leu Asp Arg Gln Gly Tyr Gly
        275             280             285
```

```
Gln Ile Lys Val Val Arg Ala Asp Gly Asp Thr Leu Ser Cys Ile Cys
    290             295             300
```

```
Gly Lys Thr Lys Leu Gly Glu Asp Met Leu Cys Leu Leu His Gly Arg
305             310             315                 320
```

```
Asn Ser Met Ala Pro Pro Cys Gly Asp Met Glu Asn Leu Leu Cys Ala
            325             330             335
```

```
Thr Asp Ser Leu Tyr Leu Asp Thr Met Gln Val Met Lys Trp Phe Gln
            340             345             350
```

```
Thr Ala Leu Thr Arg Ala Trp Lys Gly Ile Ala His Lys Tyr Glu Phe
        355             360             365
```

```
Asp Leu Ala Phe Gly Gln Leu Asp Ser Pro Gly Ser Leu Lys Ile Lys
    370             375             380
```

```
Phe Arg Ser Gly Lys Phe Met Pro Phe Asn Leu Ile Pro Val Ile Gln
385             390             395                 400
```

```
Cys Asp Asp Ser Asp Leu Tyr Phe Val Ser His Leu Pro Arg Glu Pro
            405             410             415
```

```
Ser Glu Gly Thr Pro Ala Ser Ser Thr Asp Trp Leu Leu Ser Phe Ala
            420             425             430
```

```
Val Tyr Glu Arg His Phe Leu Arg Thr Thr Leu Lys Ala Leu Pro Glu
    435             440             445
```

Gly Ala Cys His Leu Ser Cys Leu Gln Ile Ala Ser Phe Leu Leu Ser
    450   455   460

Lys Gln Ser Arg Leu Thr Gly Pro Ser Gly Leu Ser Ser Tyr His Leu
465   470   475   480

Lys Thr Ala Leu Leu His Leu Leu Leu Arg Gln Ala Ala Asp Trp
            485   490   495

Lys Ala Gly Gln Leu Asp Ala Arg Leu His Glu Leu Leu Cys Phe Leu
            500   505   510

Glu Lys Ser Leu Leu Gln Lys Lys Leu His His Phe Phe Ile Gly Asn
        515   520   525

Arg Lys Val Pro Glu Ala Met Gly Leu Pro Glu Ala Val Leu Arg Ala
    530   535   540

Glu Pro Leu Asn Leu Phe Arg Pro Phe Val Leu Gln Arg Ser Leu Tyr
545   550   555   560

Arg Lys Thr Leu Asp Ser Phe Tyr Glu Met Leu Lys Asn Ala Pro Ala
            565   570   575

Leu Ile Ser Glu Tyr Ser Leu His Val Pro Ser Asp Gln Pro Thr Pro
            580   585   590

Lys Ser

<210>   250
<211>   23
<212>   PRT
<213>   Homo sapien

<400>   250

Met Tyr Cys Ile Gly Gly Trp Ala Gly Pro Thr Leu Cys Tyr Val Lys
1   5   10   15

Glu Leu Val Leu Val Leu Gly
            20

<210>   251
<211>   213
<212>   PRT

<213> Homo sapien

<400> 251

Ser Pro His Gln Ala Ala Ala Pro Val Asp Gln Thr Pro Arg Thr Leu
1   5   10   15

Ala Thr Met Gly Gln Arg Ala Leu Pro Ser Ser Leu Ala Leu Leu Ser
            20   25   30

Arg Pro Leu Ser Pro Pro Pro Ala Ala Cys Ser Gly Asp Pro Gly Cys
        35   40   45

Gly Ser Gly Ala Gly Leu Pro Ser Ala Ser Ala Ala Ala Gly Ile Ala
    50   55   60

Ser Ser Ala Val Glu Ala Val Cys Gly Asp Ala Ala Pro Ala Cys Leu
65   70   75   80

Leu Arg Thr Pro Leu Arg Gly Leu Leu Lys Pro Thr Gly Pro Arg Ser
            85   90   95

Thr Met Glu Cys Pro Pro Ala Leu Ile Val His Pro Pro Thr Gly Gly
            100   105   110

Met Ala Arg Arg Ala Ala Ser Gln Pro Trp Ala Ala Ala Ser Ala Thr
        115   120   125

Pro Met Leu Ser Ser Lys Ala Ser Leu Cys Ile Pro Thr Glu Arg Pro
    130   135   140

Pro Pro Gln Pro Leu Met Arg Thr Pro Ala Ala Arg Ser His Trp Pro
145   150   155   160

Ile Pro His Pro Ala Ser Thr Ala Cys Pro Ala Pro Leu Pro Val Val
            165   170   175

Leu Val Ala Pro Arg Ser Thr Ile Leu Ser Met Ser Arg Thr Trp Thr
        180   185   190

Cys Arg Arg Trp Ala Val Ala Pro Cys Arg Ala Glu Lys Leu Met Cys
    195   200   205

Ser Ser Ser Arg Ser
    210

<210> 252
<211> 32
<212> PRT
<213> Homo sapien

<400> 252

Met His Glu Leu Thr Ala Arg Leu Thr Gln Pro Leu Asn Ser Gly Ser
1   5   10   15

Cys Phe Ser Leu Ala Ala Ile His His Met Arg Arg Arg Ser Met His
            20   25   30

<210> 253
<211> 58
<212> PRT
<213> Homo sapien

<400> 253

Met Ser Leu Gln Leu Gln Ile Leu Asn Val Ser Pro Val Ile Trp His
1   5   10   15

Phe Arg His Ser Tyr Leu Lys Pro Gln Phe Ser Leu Pro Val Lys Trp
            20   25   30

Gly Ile Ile Ile Pro Ile Leu Pro Arg Leu Leu Lys Gly Leu Ser Glu
            35   40   45

Leu Ile Cys Lys Met Leu Asn Arg Thr Gln
        50   55

<210> 254
<211> 34
<212> PRT
<213> Homo sapien

<400> 254

Met Gly Ser Ala Phe Val Leu Leu Ser Trp Arg Ala Cys Leu Cys Cys
1   5   10   15

Arg Ala Val Ser Val Val Gly Ile Ala Leu Leu Phe Pro Ala Thr Gly
            20   25   30

Gln Ile

<210> 255

<211> 74
<212> PRT
<213> Homo sapien

<400> 255

Lys Arg Phe Phe Phe Phe Pro Ala Pro Ile Phe Cys Lys Thr Glu Val
1   5   10   15

Pro Glu His Arg Arg Ser Ser Ser Gln Ala Asn Phe Ile Lys Lys Lys
            20   25   30

Leu Glu Val Cys Phe Asp Phe Ala Val Ile Cys Phe Ile Thr Ser Ile
            35   40   45

Phe Gly Glu Gln Pro Gln Leu Leu Ile Phe Met Glu Lys Tyr Phe Gln
        50   55   60

Val Gln Gly Gln Tyr Ile Ser Gln Ser Glu
65   70

<210> 256
<211> 34
<212> PRT
<213> Homo sapien

<400> 256

Met Ile Lys Val Cys Val Pro Ile Thr Phe Pro Leu Pro Glu Arg Arg
1   5   10   15

Val Ser Arg Lys Ile Asn Ser Ile Leu Asp Ala Gly Thr Ser Pro Arg
            20   25   30

Pro Arg

<210> 257
<211> 37
<212> PRT
<213> Homo sapien

<400> 257

Met Asn Ser Ser Asn Arg Arg Leu Phe Trp Lys Lys Ser Gln Gly Leu
1   5   10   15

Ser Pro Ser Trp Val Ala Pro Tyr Lys Ser Asn Ser Ser Ser Gly Ser
            20   25   30

Leu Val Tyr Pro Leu
        35

<210> 258
<211> 73
<212> PRT
<213> Homo sapien

<400> 258

Met Glu Phe Leu Leu Leu Glu Val Glu Lys Tyr Asn Ile Ile Lys Lys
1   5   10   15

Asp Val Ile Pro Thr Arg Gly Leu Arg Gly Lys Leu Lys Asp Ile Lys
            20   25   30

Gln Ser Asn Leu Val Ile Val Lys Thr Ile Tyr Val Gly His Arg Thr
            35   40   45

Glu Asp Gln Val Ser Lys Glu Asp Gly Ser Val Pro Phe Val Ser Pro
        50   55   60

Val Pro Lys Ala Val Phe Gly Ala Ser
65   70

<210> 259
<211> 1533
<212> PRT
<213> Homo sapien

<400> 259

Met Tyr Ile Arg Val Ser Tyr Asp Thr Lys Pro Asp Ser Leu Leu His
1   5   10   15

Leu Met Val Lys Asp Trp Gln Leu Glu Leu Pro Lys Leu Leu Ile Ser
            20   25   30

Val His Gly Gly Leu Gln Asn Phe Glu Met Gln Pro Lys Leu Lys Gln
            35   40   45

Val Phe Gly Lys Gly Leu Ile Lys Ala Ala Met Thr Thr Gly Ala Trp
        50   55   60

Ile Phe Thr Gly Gly Val Ser Thr Gly Val Ile Ser His Val Gly Asp
65   70   75   80

Ala Leu Lys Asp His Ser Ser Lys Ser Arg Gly Arg Val Cys Ala Ile
            85   90   95

Gly Ile Ala Pro Trp Gly Ile Val Glu Asn Lys Glu Asp Leu Val Gly
            100   105   110

Lys Asp Val Thr Arg Val Tyr Gln Thr Met Ser Asn Pro Leu Ser Lys
            115   120   125

Leu Ser Val Leu Asn Asn Ser His Thr His Phe Ile Leu Ala Asp Asn
    130   135   140

Gly Thr Leu Gly Lys Tyr Gly Ala Glu Val Lys Leu Arg Arg Leu Leu
145   150   155   160

Glu Lys His Ile Ser Leu Gln Lys Ile Asn Thr Arg Leu Gly Gln Gly
                165   170   175

Val Pro Leu Val Gly Leu Val Val Glu Gly Gly Pro Asn Val Val Ser
            180   185   190

Ile Val Leu Glu Tyr Leu Gln Glu Glu Pro Pro Ile Pro Val Val Ile
            195   200   205

Cys Asp Gly Ser Gly Arg Ala Ser Asp Ile Leu Ser Phe Ala His Lys
    210   215   220

Tyr Cys Glu Glu Gly Gly Ile Ile Asn Glu Ser Leu Arg Glu Gln Leu
225   230   235   240

Leu Val Thr Ile Gln Lys Thr Phe Asn Tyr Asn Lys Ala Gln Ser His
            245   250   255

Gln Leu Phe Ala Ile Ile Met Glu Cys Met Lys Lys Lys Glu Leu Val
            260   265   270

Thr Val Phe Arg Met Gly Ser Glu Gly Gln Gln Asp Ile Glu Met Ala
            275   280   285

Ile Leu Thr Ala Leu Leu Lys Gly Thr Asn Val Ser Ala Pro Asp Gln
    290   295   300

Leu Ser Leu Ala Leu Ala Trp Asn Arg Val Asp Ile Ala Arg Ser Gln
305   310   315   320

Ile Phe Val Phe Gly Pro His Trp Thr Pro Leu Gly Ser Leu Ala Pro
          325   330   335

Pro Thr Asp Ser Lys Ala Thr Glu Lys Glu Lys Lys Pro Pro Met Ala
          340   345   350

Thr Thr Lys Gly Gly Arg Gly Lys Gly Lys Gly Lys Lys Lys Gly Lys
          355   360   365

Val Lys Glu Glu Val Glu Glu Glu Thr Asp Pro Arg Lys Ile Glu Leu
    370   375   380

Leu Asn Trp Val Asn Ala Leu Glu Gln Ala Met Leu Asp Ala Leu Val
385   390   395   400

Leu Asp Arg Val Asp Phe Val Lys Leu Leu Ile Glu Asn Gly Val Asn
              405   410   415

Met Gln His Phe Leu Thr Ile Pro Arg Leu Glu Glu Leu Tyr Asn Thr
          420   425   430

Arg Leu Gly Pro Pro Asn Thr Leu His Leu Leu Val Arg Asp Val Lys
          435   440   445

Lys Ser Asn Leu Pro Pro Asp Tyr His Ile Ser Leu Ile Asp Ile Gly
    450   455   460

Leu Val Leu Glu Tyr Leu Met Gly Gly Ala Tyr Arg Cys Asn Tyr Thr
465   470   475   480

Arg Lys Asn Phe Arg Thr Leu Tyr Asn Asn Leu Phe Gly Pro Lys Arg
              485   490   495

Pro Lys Ala Leu Lys Leu Leu Gly Met Glu Asp Asp Glu Pro Pro Ala
          500   505   510

Lys Gly Lys Lys Lys Lys Lys Lys Lys Glu Glu Glu Ile Asp Ile
          515   520   525

Asp Val Asp Asp Pro Ala Val Ser Arg Phe Gln Tyr Pro Phe His Glu
    530   535   540

Leu Met Val Trp Ala Val Leu Met Lys Arg Gln Lys Met Ala Val Phe
545   550   555   560

```
Leu Trp Gln Arg Gly Glu Glu Ser Met Ala Lys Ala Leu Val Ala Cys
            565             570             575

Lys Leu Tyr Lys Ala Met Ala His Glu Ser Ser Glu Ser Asp Leu Val
            580             585             590

Asp Asp Ile Ser Gln Asp Leu Asp Asn Asn Ser Lys Asp Phe Gly Gln
            595             600             605

Leu Ala Leu Glu Leu Leu Asp Gln Ser Tyr Lys His Asp Glu Gln Ile
    610             615             620

Ala Met Lys Leu Leu Thr Tyr Glu Leu Lys Asn Trp Ser Asn Ser Thr
625             630             635             640

Cys Leu Lys Leu Ala Val Ala Ala Lys His Arg Asp Phe Ile Ala His
            645             650             655

Thr Cys Ser Gln Met Leu Leu Thr Asp Met Trp Met Gly Arg Leu Arg
            660             665             670

Met Arg Lys Asn Pro Gly Leu Lys Val Ile Met Gly Ile Leu Leu Pro
            675             680             685

Pro Thr Ile Leu Phe Leu Glu Phe Arg Thr Tyr Asp Asp Phe Ser Tyr
    690             695             700

Gln Thr Ser Lys Glu Asn Glu Asp Gly Lys Glu Lys Glu Glu Glu Asn
705             710             715             720

Thr Asp Ala Asn Ala Asp Ala Gly Ser Arg Lys Gly Asp Glu Glu Asn
            725             730             735

Glu His Lys Lys Gln Arg Ser Ile Pro Ile Gly Thr Lys Ile Cys Glu
            740             745             750

Phe Tyr Asn Ala Pro Ile Val Lys Phe Trp Phe Tyr Thr Ile Ser Tyr
            755             760             765

Leu Gly Tyr Leu Leu Leu Phe Asn Tyr Val Ile Leu Val Arg Met Asp
    770             775             780

Gly Trp Pro Ser Leu Gln Glu Trp Ile Val Ile Ser Tyr Ile Val Ser
```

```
   785                      790                      795                      800

Leu Ala Leu Glu Lys Ile Arg Glu Ile Leu Met Ser Glu Pro Gly Lys
                805                  810                  815

Leu Ser Gln Lys Ile Lys Val Trp Leu Gln Glu Tyr Trp Asn Ile Thr
                820                  825                  830

Asp Leu Val Ala Ile Ser Thr Phe Met Ile Gly Ala Ile Leu Arg Leu
                835                  840                  845

Gln Asn Gln Pro Tyr Met Gly Tyr Gly Arg Val Ile Tyr Cys Val Asp
    850                  855                  860

Ile Ile Phe Trp Tyr Ile Arg Val Leu Asp Ile Phe Gly Val Asn Lys
865                  870                  875                  880

Tyr Leu Gly Pro Tyr Val Met Met Ile Gly Lys Met Met Ile Asp Met
                885                  890                  895

Leu Tyr Phe Val Val Ile Met Leu Val Val Leu Met Ser Phe Gly Val
            900                  905                  910

Ala Arg Gln Ala Ile Leu His Pro Glu Glu Lys Pro Ser Trp Lys Leu
        915                  920                  925

Ala Arg Asn Ile Phe Tyr Met Pro Tyr Trp Met Ile Tyr Gly Glu Val
    930                  935                  940

Phe Ala Asp Gln Ile Asp Leu Tyr Ala Met Glu Ile Asn Pro Pro Cys
945                  950                  955                  960

Gly Glu Asn Leu Tyr Asp Glu Glu Gly Lys Arg Leu Pro Pro Cys Ile
                965                  970                  975

Pro Gly Ala Trp Leu Thr Pro Ala Leu Met Ala Cys Tyr Leu Leu Val
                980                  985                  990

Ala Asn Ile Leu Leu Val Asn Leu  Leu Ile Ala Val Phe  Asn Asn Thr
        995                  1000                 1005

Phe Phe  Glu Val Lys Ser Ile  Ser Asn Gln Val Trp  Lys Phe Gln
    1010                 1015                 1020
```

Arg Tyr Gln Leu Ile Met Thr Phe His Asp Arg Pro Val Leu Pro
    1025   1030   1035

Pro Pro Met Ile Ile Leu Ser His Ile Tyr Ile Ile Ile Met Arg
    1040   1045   1050

Leu Ser Gly Arg Cys Arg Lys Lys Arg Glu Gly Asp Gln Glu Glu
    1055   1060   1065

Arg Asp Arg Gly Leu Lys Leu Phe Leu Ser Asp Glu Glu Leu Lys
    1070   1075   1080

Arg Leu His Glu Phe Glu Glu Gln Cys Val Gln Glu His Phe Arg
    1085   1090   1095

Glu Lys Glu Asp Glu Gln Gln Ser Ser Ser Asp Glu Arg Ile Arg
    1100   1105   1110

Val Thr Ser Glu Arg Val Glu Asn Met Ser Met Arg Leu Glu Glu
    1115   1120   1125

Ile Asn Glu Arg Glu Thr Phe Met Lys Thr Ser Leu Gln Thr Val
    1130   1135   1140

Asp Leu Arg Leu Ala Gln Leu Glu Glu Leu Ser Asn Arg Met Val
    1145   1150   1155

Asn Ala Leu Glu Asn Leu Ala Gly Ile Asp Arg Ser Asp Leu Ile
    1160   1165   1170

Gln Ala Arg Ser Arg Ala Ser Ser Glu Cys Glu Ala Thr Tyr Leu
    1175   1180   1185

Leu Arg Gln Ser Ser Ile Asn Ser Ala Asp Gly Tyr Ser Leu Tyr
    1190   1195   1200

Arg Tyr His Phe Asn Gly Glu Glu Leu Leu Phe Glu Asp Thr Ser
    1205   1210   1215

Leu Ser Thr Ser Pro Gly Thr Gly Val Arg Lys Lys Thr Cys Ser
    1220   1225   1230

Phe Arg Ile Lys Glu Glu Lys Asp Val Lys Thr His Leu Val Pro
    1235   1240   1245

Glu Cys Gln Asn Ser Leu His Leu Ser Leu Gly Thr Ser Thr Ser
    1250   1255   1260

Ala Thr Pro Asp Gly Ser His Leu Ala Val Asp Asp Leu Lys Asn
    1265   1270   1275

Ala Glu Glu Ser Lys Leu Gly Pro Asp Ile Gly Ile Ser Lys Glu
    1280   1285   1290

Asp Asp Glu Arg Gln Thr Asp Ser Lys Lys Glu Glu Thr Ile Ser
    1295   1300   1305

Pro Ser Leu Asn Lys Thr Asp Val Ile His Gly Gln Asp Lys Ser
    1310   1315   1320

Asp Val Gln Asn Thr Gln Leu Thr Val Glu Thr Thr Asn Ile Glu
    1325   1330   1335

Gly Thr Ile Ser Tyr Pro Leu Glu Glu Thr Lys Ile Thr Arg Tyr
    1340   1345   1350

Phe Pro Asp Glu Thr Ile Asn Ala Cys Lys Thr Met Lys Ser Arg
    1355   1360   1365

Ser Phe Val Tyr Ser Arg Gly Arg Lys Leu Val Gly Gly Val Asn
    1370   1375   1380

Gln Asp Val Glu Tyr Ser Ser Ile Thr Asp Gln Gln Leu Thr Thr
    1385   1390   1395

Glu Trp Gln Cys Gln Val Gln Lys Ile Thr Arg Ser His Ser Thr
    1400   1405   1410

Asp Ile Pro Tyr Ile Val Ser Glu Ala Ala Val Gln Ala Glu Gln
    1415   1420   1425

Lys Glu Gln Phe Ala Asp Met Gln Asp Glu His His Val Ala Glu
    1430   1435   1440

Ala Ile Pro Arg Ile Pro Arg Leu Ser Leu Thr Ile Thr Asp Arg
    1445   1450   1455

Asn Gly Met Glu Asn Leu Leu Ser Val Lys Pro Asp Gln Thr Leu
    1460   1465   1470

```
Gly Phe  Pro Ser Leu Arg Ser  Lys Ser Leu His Gly  His Pro Arg
    1475             1480             1485


Asn Val  Lys Ser Ile Gln Gly  Lys Leu Asp Arg Ser  Gly His Ala
    1490             1495             1500


Ser Ser  Val Ser Ser Leu Val  Ile Val Ser Gly Met  Thr Ala Glu
    1505             1510             1515


Glu Lys  Lys Val Lys Lys Glu  Lys Ala Ser Thr Glu  Thr Glu Cys
    1520             1525             1530
```

<210> 260
<211> 92
<212> PRT
<213> Homo sapien

<400> 260

```
Met Ile Ile Leu Val Val Gly Arg Ile Thr Arg Gly Asn Ala Leu Tyr
1             5             10                  15


Ser Gln Glu Glu Cys Cys Val Cys Thr Thr Gln Leu Thr Thr Trp Val
            20             25                  30


Val Cys Ser Thr Leu His Cys Val Ser Ile Leu Trp Ser Val Arg Pro
            35             40             45


Ser Leu Ser Glu Gly Gly Tyr Leu Pro Leu Ala Ala Ser Val Ser Ala
    50             55             60


Ala Ile Val Val Cys Phe Val Cys Val Cys Val Val Ser Cys His Asp
65             70             75                  80


Ala Thr Ile Leu Leu Arg Ile Gly Asn Phe Gly Gly
            85             90
```

<210> 261
<211> 66
<212> PRT
<213> Homo sapien

<400> 261

```
Met Glu Leu Leu Thr Asp Lys Gly Glu Ile Leu Asp Leu Glu Pro Phe
1             5                  10                  15
```

Pro Ala Ile Leu Leu Phe Ser Leu Cys Leu Gly Ser Trp Phe His Ser
            20   25   30

Ala Arg His Glu Gly Pro Phe Gln Phe Asp Asp Ile Arg Leu Leu Thr
            35   40   45

Leu Ser Trp Met Pro Cys Cys Leu Gln Gln His Asp Phe Thr Val Cys
        50   55   60

Phe Ser
65

<210> 262
<211> 90
<212> PRT
<213> Homo sapien

<400> 262

Met Trp Asn Ile Pro Gly Leu Ala Gly Ala Met Pro Ala Met Gln Thr
1   5   10   15

Ser Pro Glu Pro Ser His Pro Gly Ser Val Arg Val Pro Arg Ala Val
            20   25   30

Ala Pro His Pro Pro Pro Thr Gly Pro Cys Ser Trp Ser Cys Cys Asp
            35   40   45

Ser Phe Ile Ile Pro Trp Ala Gly Val Gly Leu Ser Leu Cys Phe Cys
        50   55   60

Leu Leu Phe Lys Glu Asp Glu Val Ser Met Glu Asn Lys Thr Asn Val
65   70   75   80

Val Thr Pro Ser Leu Arg Arg Val His Cys
                85   90

<210> 263
<211> 13
<212> PRT
<213> Homo sapien

<400> 263

Met Ser Gly Gln Pro Arg Pro Thr Ser Pro Cys Val Leu
1   5   10

<210> 264
<211> 100
<212> PRT
<213> Homo sapien

<400> 264

Phe Phe Leu Arg Trp Ser Leu Ala Gln Val Ala Gln Ala Ala Arg Gln
1   5   10   15

Trp Leu Asn Leu Ser Ser Leu Gln Pro Pro Pro Gly Phe Lys Arg
            20   25   30

Phe Ser Cys Leu Gly Leu Leu Ser Ser Trp Asp Tyr Arg His Ala Pro
            35   40   45

Pro Arg Pro Ala Ile Phe Val Phe Leu Val Glu Met Gly Phe His His
        50   55   60

Ile Val Gln Ala Gly Leu Lys Pro Leu Thr Ser Gly Asp Leu Ala Thr
65   70   75   80

Ser Ala Phe Gln Ser Ala Glu Ile Ile Gly Val Ser His Cys Ala Gln
                85   90   95

Pro Gln Lys Ser
            100

<210> 265
<211> 10
<212> PRT
<213> Homo sapien

<400> 265

Met Lys Gly Lys Ile Leu Ile Phe Pro Ile
1   5   10

<210> 266
<211> 43
<212> PRT
<213> Homo sapien

<400> 266

Met Ser Pro Glu Pro Ser His Phe Ser Pro Pro Ala Pro Pro Ser Phe
1   5   10   15

Ser Pro Thr His Pro Ser Leu Pro Leu Thr Trp Ile Ser Ala Pro Ala
            20   25   30

Ala Ser Pro Leu Pro Leu Leu Leu Pro Thr Phe
        35   40

<210>   267
<211>   124
<212>   PRT
<213>   Homo sapien

<400>   267

Met Val Phe Tyr Cys Ile Leu Phe Leu Gln Leu Ile Gln Phe Cys Met
1   5   10   15

Ser Phe Leu Ser Phe Leu Gly Glu Asn Ile Leu Cys Gln Leu Phe Ser
            20   25   30

Thr Val Leu His Tyr Ile Leu Lys Gln Gly Cys Gln Leu Glu Thr Gln
            35   40   45

Pro Ser Asp Tyr Lys Ala Gln Asn Val Thr Phe Asn Cys Ala Pro Pro
        50   55   60

Gly Gly Leu Ala Leu Gly Lys Asp Gly Glu Arg Asn Ile Leu Arg Tyr
65   70   75   80

Glu His Phe Leu Phe Cys Leu Gln Cys Cys Asp Leu Val Gln Gln Leu
                85   90   95

Gln Asn Cys Ser His Leu Asn Arg Cys Ser Phe Ser Phe Phe Thr Leu
            100   105   110

Leu Tyr Lys Arg Leu Val Ser Gln Leu His Tyr His
            115   120

<210>   268
<211>   67
<212>   PRT
<213>   Homo sapien

<400>   268

Met Pro Glu Phe His Pro His Ser Leu Glu Leu Phe Thr Tyr Ser Pro
1   5   10   15

Ser Gln Glu Leu Leu Asp Glu His Gln Glu Met Arg Phe Lys Tyr Asn
            20   25   30

Thr Glu Lys Cys Ala Gln Ala Gly Tyr His Pro Cys Trp Asn Leu Ala
        35   40   45

Leu Ala Asn Trp Ala Thr Arg Val Pro Ala Arg Ala Asp Pro Ser Gln
        50   55   60

Ser Ala Gly
65

<210>   269
<211>   23
<212>   PRT
<213>   Homo sapien

<400>   269

Met Thr Asp Leu Lys Glu Asn Ser Lys Ala Asp Leu Glu Asn Leu Leu
1   5   10   15

Leu Phe Leu Ser Pro Asn Pro
            20

<210>   270
<211>   46
<212>   PRT
<213>   Homo sapien

<400>   270

Met Glu Asn Leu Ser Ser Ile Ser Glu Val Val Asn Ala Ile Ser Gly
1   5   10   15

Ile Gln Arg Leu Ala Val Lys Ser Ser Leu Gly Ser Leu Tyr Leu Thr
            20   25   30

Phe Phe Leu Val Ser Ile Leu Lys Met Gln Ser His Ile Leu
        35   40   45

<210>   271
<211>   15
<212>   PRT
<213>   Homo sapien

<400>   271

Met Thr Glu Glu Gly Glu Ser Leu Ser Gly Gln Ser Leu Gly Trp
1   5   10   15

<210>   272

<211> 46
<212> PRT
<213> Homo sapien

<400> 272

Met Pro Ser Ala Arg Met Ser Asp Gly Leu Val Ala Ala Glu Val Gln
1   5   10   15

Ser Pro Val Ile Phe Leu Phe Gly Pro Ile Trp Leu Leu Ile Leu Met
                20   25   30

His Gln Asn Phe Met Tyr Asn His Met Asp Leu Tyr Val Asn
            35   40   45

<210> 273
<211> 32
<212> PRT
<213> Homo sapien

<400> 273

Met Gly Arg Ala Leu Pro Leu Ser Ala Ala Pro Ser Leu Ser Leu Cys
1   5   10   15

Leu Pro Ala Gln Lys Arg Trp Leu Trp Pro Arg Gly Ser Gly Arg Asp
                20   25   30

<210> 274
<211> 224
<212> PRT
<213> Homo sapien

<400> 274

Met Ala Val Gly Asn Ile Asn Glu Leu Pro Glu Asn Ile Leu Leu Glu
1   5   10   15

Leu Phe Thr His Val Pro Ala Arg Gln Leu Leu Leu Asn Cys Arg Leu
                20   25   30

Val Cys Ser Leu Trp Arg Asp Leu Ile Asp Leu Val Thr Leu Trp Lys
            35   40   45

Arg Lys Cys Leu Arg Glu Gly Phe Ile Thr Glu Asp Trp Asp Gln Pro
    50   55   60

Val Ala Asp Trp Lys Ile Phe Tyr Phe Leu Arg Ser Leu His Arg Asn
65   70   75   80

Leu Leu His Asn Pro Cys Ala Glu Glu Gly Phe Glu Phe Trp Ser Leu
            85   90   95

Asp Val Asn Gly Gly Asp Glu Trp Lys Val Glu Asp Leu Ser Arg Asp
            100   105   110

Gln Arg Lys Glu Phe Pro Asn Asp Gln Val Arg Ser Gln Ala Arg Leu
            115   120   125

Arg Val Gln Val Pro Ala Val Arg Ser Ala Pro Val Val Arg Ala Arg
    130   135   140

Ala Ser Gly Asp Leu Pro Ala Arg Pro Gly Asp His Pro Ala Glu Glu
145   150   155   160

Arg Cys Gln Val Glu Gly Gly Leu Pro His Ile Leu Gln Leu Pro Ala
            165   170   175

Arg Arg Pro Leu His Leu Val Ser Ala Arg Arg Arg Gly His Ser Leu
            180   185   190

Leu Gly Arg Leu Val Arg Pro Glu Gly His Gln Gln Gln His His His
            195   200   205

Arg Ala Pro Ala Ala Leu Thr Pro Pro Glu Pro Pro Ser Ala Glu Pro
    210   215   220

<210> 275
<211> 33
<212> PRT
<213> Homo sapien

<400> 275

Met Gly Gly Gln Ala Thr Arg Tyr Tyr Ile Ile Asn Ile Leu Ser Gly
1   5   10   15

Lys Ile Ser Leu Phe Arg Ala Ile Arg Gln Val Ala Lys Asn Phe Ile
            20   25   30

Leu

<210> 276
<211> 77
<212> PRT

<213> Homo sapien

<400> 276

Met Asn Gly Lys Thr Lys Val Glu Arg Asn Ile Leu Ser Tyr Ile Ile
1   5   10   15

Leu Gln Ile Lys Thr Phe Lys Asn Gln Ile Val Phe Leu Val Leu Arg
            20   25   30

Thr Asn Arg Lys Cys Leu Ile Ile Tyr Phe Ile Ser Thr Arg Gln Lys
        35   40   45

Tyr Ser Tyr Ala Ala Asp Val Arg Glu Gly Gly Glu Phe Pro Gln Pro
        50   55   60

Ser Met Lys Lys Asp Lys Gly Pro Tyr Pro Leu Ala Val
65   70   75

<210> 277
<211> 39
<212> PRT
<213> Homo sapien

<400> 277

Met Tyr Val Arg Ser Ile His Leu Lys Ser Met Val Gln Ile Ala Lys
1   5   10   15

Ile Gly Pro Gly Glu Thr Cys Ser His Phe Leu Lys Thr Cys Thr Ser
            20   25   30

Ala Ala Asn His Ala Thr Pro
        35

<210> 278
<211> 26
<212> PRT
<213> Homo sapien

<400> 278

Met Pro Ile Arg Leu Cys Val Cys Ala Arg Phe Leu Lys Thr Ala Asn
1   5   10   15

Tyr Ile Val Ser Ser Gln Met Ser Gly Phe
            20   25

<210> 279

<211> 149
<212> PRT
<213> Homo sapien

<400> 279

Met Leu Val Phe Ser Ala Gly Arg Leu Ala Cys Trp Arg Ala Val Cys
1   5   10   15

Trp Leu Gly Arg Cys Ala Cys Ala Ser Ser Arg Val Cys Leu Arg Leu
            20   25   30

Val Leu Ser Trp Ser Arg Val Val Cys Phe Trp Trp Ser Phe Trp Leu
            35   40   45

Phe Val Ser Val Val Cys Phe Val Phe Ser Cys Phe Val Ser Leu Leu
        50   55   60

Cys Cys Cys Gly Val Arg Leu Tyr Phe Val Val Ser Trp Gly Val Phe
65   70   75   80

Phe Cys Asp Leu Leu Arg Cys Cys Tyr Asp Asn Val Cys Phe Ala His
                85   90   95

Pro Thr Val Cys Phe Ser Ser Cys Pro Phe Phe Gly Val Leu Asn Tyr
                100   105   110

Val Phe Phe Ile Leu Phe Pro His Trp Gly Val Cys Val Gly Gly Val
                115   120   125

Val Pro Phe Ala Ala Val Phe Ser Gly Phe Phe Trp Ser Cys Pro Cys
        130   135   140

Phe Val Ala Ala Arg
145

<210> 280
<211> 54
<212> PRT
<213> Homo sapien

<400> 280

Met Ile Leu Lys Gly Thr Leu Thr Ile Tyr Asn Lys Ser Phe Gln Tyr
1   5   10   15

Tyr Ser Ser Ser Leu Thr Ser Glu Ser Leu Val Tyr Val Ile Leu Ser
            20   25   30

Arg Lys Lys Thr Thr Tyr Lys Ser His Phe Pro Thr Lys Leu Ile Gln
        35   40   45

His Pro Thr Leu Lys Ile
    50

<210> 281
<211> 114
<212> PRT
<213> Homo sapien

<400> 281

Val Ala Gly Ile Thr Gly Ile His His His Thr Gln Leu Phe Phe Cys
1   5   10   15

Ile Phe Val Arg Asp Arg Phe Leu His Val Gly Gln Ala Gly Leu Glu
            20   25   30

Leu Pro Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Asp Asp
        35   40   45

Phe Ile Phe Ile Phe Asn Cys Ile Asn Leu His Leu Asp Asn Asp Phe
    50   55   60

Val Lys Gly Val Cys Cys Val Gln Asn Leu Arg Tyr Trp Leu Arg Val
65   70   75   80

Lys Tyr Ile Ile Phe Ile Ile Cys Trp Val Ala Ser Ser Tyr Ala Ala
            85   90   95

Phe Phe Leu Ser Thr Phe Ile Lys Ser Ser Phe Leu Lys Leu Phe Ile
            100   105   110

Ile Phe

<210> 282
<211> 171
<212> PRT
<213> Homo sapien

<400> 282

Met Leu Phe Cys Ile Phe Thr Val Tyr Cys Phe Tyr Asn Lys Tyr Lys
1   5   10   15

Met Lys Met Phe Met Leu Thr Lys Arg Thr Lys Asn Asn Lys Gln Gln
        20   25   30

Lys Thr Lys Gly Trp Gly Cys His Thr Cys Gly Pro Lys Ala Gly Phe
        35   40   45

Pro Gly Gly Gly His Leu Val Leu Ser Arg Pro His Asn Ser Pro Pro
        50   55   60

Lys Tyr Tyr Arg Glu Thr Thr Gly Arg Thr Thr Gln His Thr Lys Arg
65   70   75   80

His Asn Thr Gln Asn His His Thr Ala Thr Pro Ala His Arg Arg Gln
           85   90   95

Arg Thr Arg Arg Glu Gln Lys Glu Lys Gly Gln Gln Lys Lys Ala Ser
          100   105   110

Ser Thr Ile Thr Thr Gln Ser His Asp Lys Lys Arg Arg Thr Met Thr
        115   120   125

Lys Thr Ser Ser Ser Thr Arg His Arg Gln Asp Lys Ser Lys Lys Asp
        130   135   140

Arg Thr Arg Gln Lys Thr Thr Arg Asp Glu Thr Thr Lys Lys Pro His
145   150   155   160

Lys Lys Ala Ser Glu Asn Lys Asn Gln Leu Thr
          165   170

```
<210>  283
<211>  90
<212>  PRT
<213>  Homo sapien

<400>  283
```

Met Asn Ala Thr Val Leu Ser Val Phe Lys Ala Lys Leu Leu Trp Lys
1   5   10   15

Leu Gly Gly Gly Pro Pro Cys Gly Pro Pro Ala Ala Leu Cys Leu Pro
        20   25   30

Leu Gly Ala Pro Glu Leu Met Pro Val Val Ile Ser Ala Met Leu Asp
        35   40   45

```
Ala Arg Ser Gln Arg Ser Ala Ser Leu Ser Gln Leu Ala Cys Ala Ala
    50              55              60

Leu Thr Trp Leu Pro Ala Val Leu Arg Asn Leu His Trp Trp Asp Lys
65              70              75              80

Gly Met Lys Arg Ile Asn Lys Asp Leu Lys
                85              90
```

<210> 284
<211> 154
<212> PRT
<213> Homo sapien

<400> 284

```
Lys Glu Ala Pro Ser Ser Gln Asp Ile Leu Val Phe Leu Thr Gly Gln
1               5               10              15

Glu Glu Ile Glu Ala Met Ser Lys Thr Cys Arg Asp Ile Ala Lys His
            20              25              30

Leu Pro Asp Gly Cys Pro Ala Met Leu Val Leu Pro Leu Tyr Ala Ser
            35              40              45

Leu Pro Tyr Ala Gln Gln Leu Arg Val Phe Gln Gly Ala Pro Lys Gly
            50              55              60

Tyr Arg Lys Val Ile Ile Ser Thr Asn Ile Ala Glu Thr Ser Ile Thr
65              70              75              80

Ile Thr Gly Ile Lys Tyr Val Val Asp Thr Gly Met Val Lys Ala Lys
                85              90              95

Lys Tyr Asn Pro Asp Ser Gly Leu Glu Val Leu Ala Val Gln Arg Val
                100             105             110

Ser Lys Thr Gln Ala Trp Gln Arg Thr Gly Arg Ala Gly Arg Glu Asp
        115             120             125

Ser Gly Ile Cys Tyr Arg Leu Tyr Thr Glu Asp Glu Phe Glu Lys Phe
        130             135             140

Asp Lys Met Thr Val Pro Glu Ile Gln Arg
145                 150
```